July 1971

(Final Report)

Design Study Of Large Sculpted

Mirror Substrates

Volume II Deflection Maps

James B. Foote

Prepared by

Owens-Illinois, Inc.

for

Massachusetts Institute Of Technology

Lincoln Laboratory

Under

Purchase Order No. B-177

Prime Contract No. AF 19 (628)-5167

ARPA Order No. 600

This Report Covers The Period

May 1970 To January 1971

Distribution (21 July 197

Approved for Public Release.

Distribution Unlimited.

; test and evaluation; be referred to ESD-TR-2.

INTRODUCTION

This is Volume II of <u>Design Study of Large Sculpted</u>

<u>Mirror Substrates</u>. It consists of 147 deflection maps

resulting from calculations described in Volume I. Map

codings appear in Section 7.0 of Volume I.

Accepted for the Air Force
Joseph R.Waterman, Lt. Col., USAF
Chief, Lincoln Laboratory Project Office

9 a I ī t 7

-18 -7-ي S

9 7 α 3 7--1]

-22 -21 -19 -16 = 4 0 C | **ا** ک [ت آ

-17 -17 -15 -13 -10 __ 9 Œ I -12 α [--25

-12 -12 -15 -13 -13 -13 -15 -15 -]] -14 -15 -19 125 $\overline{\mathbb{S}}$

6-__ 9-X I 0 -- $-14 - 13 \cdot -12$ -16 α --21 477-132

-10 -11 9-7 6--3 1 1 -5 **x** -7 -10 -11 -12 -13 -15 91--20 -17 -] B -21 -23 76--26 かソー - 31 -35 α (₹, -4] -46 67-

-19 -14 6-9-4--5 6--12 -14 -16 α. [124 -20 56--35

-27 -18 -13 __ -3 œ | -12 -14 -13 -14 -15 -17 12-エハエ 78 -140

-35 -29 -23 -3] -19 -27 -14 -24 -13 -23 5 -21 -15 -17 -14 -15 -11 __ 6- \sim 61 7--13 ٦. ا α [| 77 -1 S -37

-58 -53 77-24--36 -35 -31 -25 a [-0 _ S 0 េ = α. 1 -26 -23

-73 99-09--56 -55 97--39 -30 - 18 S 5 3 -3 -15

0

06--104 -81 -76 -91 -70 -84 -64 -75 -56 -65 -46 -53 78-04--2] -28 6--19 2--13 ٣, -11 3 **σ** ~ 0 | -

-119 -112 -96 - 105-86 -74 -61 -48 -37 -29 -23 -19 -17

-156 -97 -108 -118 78--70 -57 177-6t --33

-130 -135 -93 -107 -119 180 -68 -58 67-

-91 -106 -118 -130

-14 -13 -8 -0 9

									10	18	27		64							
						0		7		17		36		79						
				œ	3	1	7	7	6 0	14	54	31	46	90	81	95				
			15	11	9	2	14	4	9	11	20	- 88	040	26	75	91	=======================================			
		19	16	8	80	9	-	4	S.	80	18	27	39	54	72	87	106	0		
1	20		16	1	1		9		5		16		39		89	*	100	120	128	
	17	18	15	14	13	10	10	7	6	7	71	56	37	51	63	81	92	112	123	
		15	ω -	14	7	13	4	17	.+	13		92		47		74	3	103	3 12	
	12	10		13	1	15	1	16	14	18	20	92	34	41	56	99	00	95	11	121
	9	7	10	11	14	17	17	19	18	20	21	23	30	33	47	53	72	4	100	109
	-5	.3	4	80	14	18	20	22	21	20	20	18	23	22	36	0 + 0	59	99	87	96
	6	2	-5	9	13	20	22	24	22	20	18	~	14	6	23	28	45	51 (73	81
	-15	3 -1	<u>ک</u> .	7	14		54		23		15	7 1	4	10	11		34		09	İ
	8	-8	~	Marian Marian	15	21	26	26	25	20	14	,-	7	-5	3	18	56	42	50	19
	7-	-2	7	10	18	23	28	28	27	21	9	7	2	-2	2	11	19	34	41	
		ហ		15		25		30		54		10				7		27		
	3		13	19	22	62	31	34	30	28	19	14	2		1	4	14	20	31	
America of the state of the sta			20	28	56	36	36	0 7	35	33	54	02	6	9	1	4	10			
page of a season many plants of the			50	40	37	46	43	46	4.0	39	30	25	16	12	R	4	1			
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		7	64		51	The state of the s	46		35		20	5 1	œ		Paradio lane opposition on a security of			
and the same of th						56	61	. 54	53	77	39	30	23	15						
The second secon								And the second second second		64										
1		the state of								2	1		1							

THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE Z DEFLECTIONS IN MATRIX TDF111 COLUMN 02

-5 -4 -4 -4 -4 -5 -4 -4 -4 -3 -3 -3 -3 -3 -3 -3 -3 -3 -5 -4 -4 -6 -7 -2 -2 -2 -2 -2 -2 -2 -2 -3 -4 -5 -4 -3 -2 -2 -1 -1 -1 -1 -1 -1 -1 -2 -2 -3 -4 -4 -3 -2 -1 -0 1 2 2 3 3 3 3 3 2 1 -0 -1 -2 -3 -4 -7 -3 -3 -2 -1 -0 1 2 2 3 3 3 3 3 3 2 1 -0 -1 -2 -3 -4 -7 -1 -1 -1 -0 0 1 2 2 2 3 3 3 3 3 3 2 1 -0 -1 -2 -3 -4 -1 -1 -1 -1 -0 0 1 2 2 2 3 3 3 3 3 2 1 -0 -1 -2 -3 -4 -1 -1 -1 -1 -0 0 1 2 2 2 3 3 3 3 3 3 2 1 -0 -1 -2 -3 -4 -1 -1 -1 -1 -0 0 1 2 2 2 3 3 3 3 3 3 3 2 1 -0 -1 -2 -3 -4 -1 -1 -1 -1 -1 -0 1 2 2 2 3 3 3 3 3 3 3 2 1 -0 -1 -2 -3 -4 -1 -1 -1 -1 -1 -0 1 2 2 2 3 3 3 3 3 3 2 1 -0 -1 -2 -3 -4 -1 -1 -1 -1 -1 -0 1 2 2 2 3 3 3 3 3 3 2 1 -0 -1 -2 -3 -5 -2 -2 -2 -1 -1 -0 1 2 2 2 3 3 3 3 3 3 3 2 1 -0 -1 -2 -3 -5 -3 -2 -2 -1 -1 -0 1 1 2 2 2 3 3 3 3 3 3 3 3 3 2 1 -0 -1 -2 -3 -5 -3 -2 -2 -1 -1 -1 -0 1 2 2 2 2 2 2 1 -0 -1 -2 -3 -5 -3 -2 -2 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -2 -3 -5 -3 -2 -2 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -2 -3 -5 -3 -2 -2 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -2 -3 -5 -3 -2 -2 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -2 -3 -5 -3 -2 -2 -1 -1 -1 -1 -1 -1 -1 -1 -1 -2 -3 -5 -3 -2 -2 -2 -1 -1 -1 -1 -1 -1 -1 -1 -1 -2 -3 -5 -3 -2 -2 -2 -1 -1 -1 -1 -1 -1 -1 -1 -1 -2 -3 -5 -3 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2	-3 -2 -2 -1 -0 -0 -0 -0 -1 -2 -2 -3 -4 -4 -3 -2 -2 -1 -1 -1 -1 -1 -2 -2 -3 -4 -4 -3 -3 -3 -3 -3 -2 -2 -2 -2 -3 -3 -4 -4 -4 -4 -4 -3 -3 -3 -3 -3 -4 -5 -5 -5 -5 -4
---	---

THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE 2 DEFLECTIONS IN MATRIX TDF111 COLUMN 03

-25 -56 -7 -16 -32 -70 4 9 -4] -21 -12 -50 6 -R7 7--35 5 -101 -22 08α -43 -10 -20 -117 -59 S -12 08-4 -75 -103 -111 2 5 -18 -4] ころし 7 -55 06--16 8 12--23 -7 -70 -12 -16 -14 -15 -39 -19 9-7--24 -51 -83 -16 -10 9--25 14 -95 -13 144 -36 -139 6 9--21 44--75 - B -15 0 [] 76--12 6 -85 -56 -35 -15 -13 -10 -16 -11 -39 -13 -14 -12 -65 -13 -13 -25 -17 94--14 -13 -14 -27 -74 -11 -10 71--15 -15 61--31 -53 -13 -16 -47 -60 -12 9[--19 -35 9--16 2 -19 -18 716 -14 04--15 -7 -12 -19 -18 -10 -22 C 4 9 -16 -2B -20 œ | 4 -17 0 -36 -19 -10 -12 7 C -21 7 -16 -18 -19 -23 œ œ | 7-4 -28 -24 -22 -2 -14 3 7-7 3 -25 -18 -13 2 -12 -21 5 ~ -14 -19 -26 -25 -18 -22 -10 -3 2-7 -29 -26 -22 -10 -17 6-7 -24 -18 2 -17 -29 S 6 -31 -34 -28 2 α 1 -31 -14 -26 -30 -35 -15 **-**38 -10 7 -48 -41 **-**33 -8 œ -39 -21 -45 -17 8 -41 -36 -31 07--14 67-6 -55 -12 95--18 29--32 -56 -51 4

THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE Z DEFLECTIONS IN MATRIX TOFILE COLUMN OF

-124

-106 -116

-95

-82

69-

-55

97-

-38

-31

-133

-128

-117

-105

-91

-78

99-

-55

24

-37

-88 -103 -115 -127

N
=
Ę
0
0
7
A
H
빑
Z
×
ā
-
H
8
1
24
ā
-
5
网
呂
Н
Y
Pag
0
3
E
9
S
8
~
A
H
봌
3
0
9
~
5
H
H
POSITION AND 9
843
5
3
ROXD
Ž.
3
7
191
-

-11 -10 -5 2 11 5 -1 -6 -10 -7 0 8 14 19 22	14 7 0 -6 -11 -2 6 11 16 19 21	32 22 14 8 3 -1 -1 5 10 14 16 18 17	43 30 21 16 11 7 6 8 11 13 14 15 14 13 11	52 39 28 23 19 15 13 13 14 14 13 11 9 7 6	58 47 38 30 25 22 20 19 17 16 14 12 10 6 3 3 3	63 53 44 37 31 27 25 23 21 18 16 13 9 6 1 -2 1 4	55 47 40 34 30 27 25 22 20 18 14 10 7 4 2 3 6	54 47 41 35 30 26 23 22 20 19 16 12 7 5 5 7 10 13	u 49 45 39 33 28 23 20 18 18 18 18 16 12 6 8 11 15 19 21	40 35 30 24 19 15 13 13 16 18 19 18 16 18 19 21 25 29	31 26 20 14 10 6 6 11 16 21 24 25 26 27 29 33 3R	24 21 16 10 5 2 -2 3 12 21 28 33 37 39 40 41 48 52	16 13 7 1 1 -2 -6 7 21 32 40 47 51 55 57 61 67	10 6 -1 2 2 3 10 23 35 47 56 63 69 73 77 83	6 6 6 8 12 18 28 40 53 65 74 82 88 93 98	9 12 16 20 27 35 46 60 73 84 94 101 108 114	22 28 35 44 53 67 R1 93 1n4 114 122	34 43 52 63 75 89 102 114 125 130	70 84 99 112 124
--	--------------------------------	-------------------------------------	---	---	--	--	---	---	--	---	--	--	--	---	--	---	-------------------------------------	-----------------------------------	------------------

$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
---	---

-2

THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE Z DEFLECTIONS IN MATRIX TDF112 COLUMN 03

-18 -10 -27 64-1 -17 -36 C -64 94-Œ -3 8 -14 -31 7 ī 04--18 -20 -15 9 9-4 -56 128 -11 -111 2-1 -39 -16 -8 5 7 -54 -19 -13 8 -27 -6 7--16 -16 -39 -20 9--5 -14 -14 -13 -11 -18 -7 -51 -14 -26 -10 1--15 -17 -37 -10 6--21 -20 -17 -15 -41 -47 -13 -26 71--13 --13 -12 -14 -14 -34 -16 -10 -26 -13 -15 -18 -10 9--17 -18 -30 -33 -19 -23 -17 -20 --20 -14 7--20 -23 -21 2 -22 -22 8 -18 -18 ~ -20 -18 -14 -22 -22 -13 9 ~ -24 6--12 12 9--20 -20 -14 -14 -15 7--24 -23 12 2 -26 -20 1-2 Œ 1 -21 -15 -26 -25 2 α _ -28 -23 -10 -21 2 2 --18 -19 -16 -28 -27 2 1-4 -30 -5 -15 -25 -24 -10 7 -22 6 -13 -31 -30 -5 -34 -19 -29 -28 -14 ī -26 -24 -36 -35 -20 6--36 -40 -28 -33 -20 9--37 -29 -43 0 7 --30 -16 94-04--39 94--25 -12 94--39 -35 65--51 -15 -56 77--30 -23 -53 -61 64-7

-92 -100 -106 -83 -72 -59 -45 -34 -26 -19 -14 -10

-95

-91

-87

-81

74-

-64

-53

04-

-28

-18

-11

1-

4

4-

7-

-72

-68

-63

-56

147

-36

-23

-11

-3

-2

~

-5

0

-31 -41 -50 -60 -73 -87 -100 -113 -123 -128

-103 -112 -120

-92

64-

99-

-51

24-

-34

-27

-67 -81 -96 -109 -121

THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE Z DEFLECTIONS IN MATRIX TDF113 COLUMN 91

-4 -4 1 8 16

THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE Z DEFLECTIONS IN MATRIX TDF113 COLUMN 02

5 5 4 4 4	5 4 4 3 3 3 3 3 3	4 3 3 2 2 2 2 3	5 4 3 2 2 1 1 1 1 1 2 2 3 4	5 4 3 2 1 0 -0 -0 -0 0 1 1 2 3 4	3 3 1 1 -0 -1 -1 -1 -1 -0 0 1 2 3 4	3 2 1 0 -1 -2 -2 -2 -1 -1 -0 1 2 3 5	2 1 0 -1 -2 -2 -3 -3 -2 -2 -1 -0 1 2 3 5	1 1 0 -1 -2 -2 -3 -3 -3 -2 -1 0 1 2 4	1 0 -1 -1 -2 -3 -3 -3 -3 -2 -1 0 1 3 4	1 0 -0 -1 -2 -3 -3 -3 -3 -3 -3 -2 -0 1 2 3 4	1 0 -1 -1 -2 -3 -3 -3 -3 -3 -2 -1 0 1 3 4	1 1 0 -1 -2 -3 -3 -3 -3 -2 -1 0 1 2 4	1 1 -0 -1 -2 -2 -2 -2 -1 0 1 2 3 5	2 1 1 0 -1 -2 -2 -2 -1 -1 0 1 2 3 5	2 2 1 0 -0 -1 -1 -1 -1 2 3 4	3 3 2 2 1 0 0 0 0 0 1 2 2 3 4	4 3 3 2 2 1 1 1 1 1 2 2 3 4	4 3 3 3 2 2 2 3 3	4 4 4 4 3 3 3 3 4	5 5 5 4	
				4		2		2 1 1 0		0	1 1 0	1		1		3		4			

-32 -15 -23 -15 -13 -27 -16 61 -20 -14 -10 -25 92--3 0 5 -13 -35 -14 -19 -25 9 7--19 -28 6-7-1--27 -13 7 --29 -23 9-6 7--18 -23 -10 T -13 -20 -26 -7 --3 -21 -10 -16 9--6 -2] -13 -12 -17 -21 6 9--13 -16 -11 -8 6 -18 --12 -12 -10 6--10 -11 -14 -10 7 -10 ---12 -7 -11 -13 -2 -12 -10 6--7 -10 -15 -13 8 0 7 -14 -16 9--11 7--15 -17 C -2 --7 -19 -16 8 -12 0--14 -18 -3 -7 -21 -7 -20 -23 -13 -15 -2 -20 -14 -25 -25 6-7 -20 -26 -20 -15 -28 8 -18 -28 -22 -16 -31 -28 -35 -33 -27 -14 -25 -47 -34 -36 -32 -39 -42 -39 -43 -34 -22 -32 -48 -42 -54 -50 -28 -41 -54 -38 -50 -59 -60 -68 -48 -34 -58 -71 -53 10

-63 -56 94--43 -57 -39 -52 -34 -37 -45 -29 -23 -28 -15 -17 9--3 3 10 9 4 ī -5 7--12 01--19 -17 -24 -27

-108-100 -78 -93 -71 -85 -64 -76 -55 -65 -45 -53 -33 04--20 -28 0 -19 2 -14 **6** -12 7--11 7--12 -12 -15 -17

-98 -107 -115 -123 -129 -110 -120 -88 66--62 -75 -86 -72 64--59 -38 -50 -31 -42 -20 -22 -25 -31

-44 -53 -61 -71 -83 -97 -110 -122 -133 -139

-82 -96 -110 -123 -134

2 DEFLECTIONS IN MATRIX TDF121 COLUMN 01 THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE

8	
21 COLUMN	
TDF121	
I MATRIX 1	
A	
=	
7 国	
昌	
9	
INCH 0	
AM	
6	
MILLIONTHS	
A	
QUANTITY	
AND	
POSITIONS	
APPROXDMIT	
7117	

								-18	-17	-12	7-	2								
					-2	-8	3 -12	2 -15	5 -12	7- 0		3	0 1	14 17	7					
					7	7	7-	-10	-15	-5	4	6	13	15	16					
			54	16	10		5 -0	0 -3	3 -2		4	9 12	2 14	4 14	4 13	_	_			
	\$3		35	25	17	13	6	7	9	80	12	13	13	13	11	8	4			
		45	34	54	20	0 18	3 15	5 15	5 15	5 15	5 15		7	3 10		9	3 -1			
		25	43	34	28	25	23	23	22	20	18	16	14	10	Ŋ	0	~	7-		
	58	67	41	35	31	1 28	3 28	8 27	7 25	5 22	2 19		6 1		9 -0	9- (- 4	4-	
		52	45	39	34	31	29	28	27	25	22	18	13	6 0	3	0-		0		
	51	45	40	34	30	n 28	3 27	92 1	5 25	5 24	4 21		16 1	,	9	S	ហ	5	· ·	
	47	43	38	32	28	25	23	22	23	23	23	21	16	6	0	10	12	13	14	4
11	38	34	29	24	20		7 16	6 18	3 21	23	3 24	4 22	2 19		7	7 19	9 21		23	
		53	52	19	14	11	6	10	15	21	52	28	8	27	27	27	59	32		
	22	19	15	6		5	3	1	6 16	5 25	5 32	36	6 38	8 39	9 38	38		75	45	
		12	10	S	0-	0	7	7-	10	54	35	45	87	51	53	54	57	60		
		9	er.	7-	0 -		2	3 12	72 3	+ 37	48	9 56	6 63	3 67	07 7	27 (92		
			-	-	~	9	10	17	28	07	53	99	73	79	84	88	91			
			3	7		17	7 24	4 33	3 44	+ 58	8 71	1 82	2 91	1 98	8 103	3 107	7			
					17	23	31	39	64	63	77	06	101	110	116					
			*	E	27	7 37	94 2	5 57	7 70	984	4 97	7 109	9 120	0 125	2				l	
								62	76	92	104	117								

-9 -8 -7 -7 -6 -6 -5 -6 -6 -0 -7 -7 -6 -6 -5 -6 -6	-8 -6 -5 -2 -2 -2 -2 -4	-7 -5 -4 -2 -1 0 0 0 -0 -1 -3 -4 -6 -8	.6 -5 -3 -1 1 2 2 2 1 -0 -2 -4 -6 -9	-4 -3 -1 2 3 4 4 4 3 2 0 -2 -4 -6 -9	-3 -2 -0 2 3 5 5 5 4 3 2 0 -2 -4 -7 -9	-2 -1 1 3 5 6 6 5 4 2 -0 -2 -5 -7	1 -1 1 3 4 6 6 6 5 4 2 -1 -3 -5 -8	-1 0 2 4 5 6 6 6 5 4 1 -2 -4 -7 -9	·1 -1 1 3 4 6 6 6 5 4 2 -1 -3 -5 -8	-1 -0 2 3 5 5 6 6 5 4 2 -0 -2 -5 -7	-2 -2 0 2 4 5 5 5 4 3 2 -0 -2 -4 -7 -9	-3 -2 -0 2 3 4 4 3 3 1 -0 -2 -4 -6 -9	-4 -4 -2 -1 1 2 2 2 1 1 -1 -2 -4 -6 -9	-6 -4 -3 -2 -1 -0 -0 -1 -2 -3 -4 -6 -8	-8 -6 -5 -4 -3 -3 -2 -2 -2 -4 -5 -6 -8	-7 -6 -5 -5 -4 -4 -4 -5 -5 -6	-8 -8 -7 -7 -6 -6 -7 -7 -7
							-4 -3 -1 -1		1- 1- 2- 2- 12		-3 -3 -5 -5					L-	

THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE Z DEFLECTIONS IN MATRIX TOF 121 ORIGIN OS

-10 -10 -9 -9 -9

2 6 3 -3 -11 -17 -22 -2	-38 -27 -18 -11 -5 -0 -0 -6 -11 -15 -18 -20 -21 -22	-48 -35 -24 -18 -12 -8 -6 -7 -10 -13 -15 -16 -17 -16 -16 -16 -17 -16 -16 -17 -16 -16 -17 -16 -16 -17 -16 -16 -17 -16 -16 -17 -19 -19 -19 -19 -19 -19 -19 -19 -19 -19	-63 -51 -40 -32 -26 -21 -18 -16 -15 -13 -13 -11 -10 -8 -6 -6 -8 -6 -6 -6 -6 -6 -6 -6 -6 -6 -6 -6 -6 -6	-10	-56 -49 -42 -35 -29 -24 -21 -18 -16 -15 -13 -9 -5 -4 -6 -8 -13 -18	-51 -46 -40 -34 -28 -22 -17 -15 -14 -14 -14 -13 -9 -4 -8 -12 -17 -23 -26	5 -45 -37 -31 -25 -18 -13 -10 -10 -12 -14 -16 -15 -13 -14 -18 -23 -28 -34	-32 -27 -21 -14 -9 -4 -3 -7 -13 -18 -21 -23 -24 -27 -30 -35 -42
-------------------------	---	--	--	-----	--	--	---	---

-97 -103 -16 -19 -23 -29 -37 -47 -61 -74 -86 -96 -104 -112 -119 06--75 -84 -65 -53 -28 -40 -13 -18 -9 -10 6 -11

-57

-52

77-

-41

-39

-35

-31

-26

-18

6

0

4

0

្រ

-1

-18

-23

-25

-72

-65

-56 -60

-5 -19 -30 -39 -46 -52

00

ന

7

E

6-

-18 -15

-89

-81

-76

-70

-64

-56

94-

-34

-21

6

-2

6

6

-2

0

-14

-96 -107 -117 -125 -83 -47 -56 -70 -39 -32 -27

-135

-129

-93 -106 -118

62- 29-

-57

-48

-39

-90 -105 -117 -129 -76

	7	
	1	
(1	,
	1	
(1	4
•		

12 5 -1 -4 -3 -8 -1 -8 -1 6 13 18 18 18 18 19 19 19 19	20	18 20 16 17 17 15	14 14 12	3 11 9 6 4	10 6 3 1 1	10 6 1 -3 0 2	7 4 1 2 5	8 5 5 6 9 11	7 8 11 14 17 19	16 16 18 21 24 27	26 27 28 32 36	37 39 39 40 46 50	51 54 57 60 65	63 68 72 76 82	81 87 92 96	93 100 107 112	113 120	24 129	
12 5 -1 -7 -12 -3 5 30 21 13 7 2 -2 -1 5 10 41 29 20 15 10 7 6 8 11 50 38 27 22 18 15 13 14 14 57 46 37 30 25 22 21 19 18 16 54 46 40 34 30 27 26 24 22 19 17 54 46 40 34 30 27 26 24 22 19 17 54 46 40 34 30 27 26 24 22 19 17 54 46 40 35 30 26 24 23 21 20 17 54 46 40 35 30 26 24 23 21 20 17 55 43 33 28 23 20 19 19 19 19 50 16 10 5 2 -1 4 13 22 29 51 12 6 1 1 2 3 11 23 36 47 52 4 5 8 12 18 28 40 53 53 42 51 61 74 88 101 54 45 51 61 74 88 101 55 4 5 8 51 61 74 88 101 55 45 51 61 74 88 101 56 80 80 80 80 80 80 80 8	13	13	•	14		13		13		19		34		26				6	22
12			1	14		17	19	17		20		62		47		72		101	
12 5 -1 -7 -19 30 21 13 7 2 -2 41 29 20 15 10 7 6 50 38 27 22 18 15 13 57 46 37 30 25 22 21 19 57 46 37 30 25 22 21 19 54 46 40 34 30 27 26 24 54 46 40 34 30 27 26 24 54 46 40 34 30 27 26 24 54 46 40 34 30 27 26 24 54 46 40 35 30 26 24 23 54 46 40 35 30 26 24 23 55 40 35 30 26 24 23 50 16 10 5 2 -1 4 50 16 10 5 2 -1 4 50 6 -1 1 2 3 11 50 6 -1 1 2 3 11 50 74 43 59 50 74 58 51 61 50 74 58 51 61 50 74 58 51 61 50 74 58 51 61 50 74 58 51 61 50 74 58 51 61 50 74 58 51 61 50 74 58 51 61 50 74 58 51 61 50 74 58 51 61 50 74 58 51 61 50 74 58 51 61 50 74 58 51 61 50 74 74 75 75 50 74 74 75 75 50 74 74 75 75 75 75 75 75 75 75			j.	14	18		21	5.0	19	19	17		22	36	0.5		99		j
12 5 -1 -7 30 21 13 7 2 -2 41 29 20 15 10 7 50 38 27 22 18 15 13 57 46 37 30 25 22 21 54 46 40 34 30 27 26 54 46 40 34 30 27 26 54 46 40 35 30 26 24 23 54 46 40 35 30 26 24 23 55 43 33 28 23 20 19 35 30 24 19 15 13 14 35 30 24 19 15 13 14 50 16 10 5 2 -1 4 51 27 34 43 51 27 34 43 51 27 34 43 68 6 11 15 19 26 34 68 68 68 68 68 60 60 60 60 60 70 70 70 70 70 70 70 70	8	7			19		23		19		12		80	23	28		52	74	82
4 -3 30 21 13 7 41 29 20 15 10 50 38 27 22 18 57 46 37 30 25 22 54 46 40 34 30 25 22 44 39 33 28 23 20 44 39 33 28 23 20 44 39 33 28 23 20 15 16 10 15 2 15 12 6 1 1 2 9 6 -1 1 5 8 12 8 11 15 13 2 42 8 11 15 19 12 3 8 11 15 19 3 42	-11	-1 -2	7	1	21		- 56		19		7	4	9-	11	18		43	61	68
30 21 13 41 29 20 15 41 29 20 15 50 38 27 22 57 46 37 30 25 54 46 40 34 30 54 46 40 35 30 54 46 40 35 30 54 46 40 35 30 54 46 19 30 26 20 14 10 30 26 20 14 10 30 26 20 14 10 30 26 20 14 10 30 26 20 15 12 5 4 5 8 8 11 15 8 11 15					25		27		20	7	7		-2		12		34		
30 21 41 29 21 41 29 20 50 38 27 57 46 37 36 54 46 40 35 44 39 33 28 44 39 33 28 44 39 33 28 54 46 40 36 54 46 40 36 54 46 40 36 56 20 16 15 12 6 15 12 6 15 12 6 16 10 15 12 6 16 10 17 12 12 6 18 11 8		G		18			30		100	1	10		1	2	œ		27		
30 41 50 38 57 46 57 46 54 46 64 39 64 39 64 39 75 46 76 40 76 40 77 40 78 40 79 6 9 6 9 6 9 6 9 6		7	20	1			34		1				1	_	Ŋ	15	21	32	
50 57 46 57 46 54 46 30 26 30 26 30 26 31 20 15 12		I .			37		0+0		33	į			9		4	11			
50 57 54 44 44 44 15 30 30 9		30	41	38	97		95		39	Ì			12		S	8			
62 62 63 53				50	57				77		30		15	0					
						62		53	64	40		23							

THE APPROXIMATE POSITION AND QUANTITY IN NILLIONTHS OF AN INCH OF THE Z DEFLECTIONS IN MATRIX TOP 122 COLLECT OR

-3 -3 -3 -5 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2
--

THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE Z DEFLECTIONS IN MATRIX TOF122 COLUMN 03

-14 -45 -23 4 1-C -13 25-4 -60 5 -19 -17 -19 -21 -42 -76 4 -57 ^ -12 7-6-4 38 -72 C S -91 -98 -103 -107 -54 -10 -27 α. • C d -13 -70 **-**38 5 -15 -15 -14 -13 -10 -6 C -53 -27 -84 =3 5 6--101 -110 -116 71--67 9 2 -39 -125 -51 -13 -27 -79 -10 8 6 -63 -14 7 - 1 4 -38 -109 -120 -11 87--13 71-17B -13 -16 -73 -34 -29 -24 -20 -17 -16 -18 -21 -23 -24 -22 -82 -16 -10 -12 -16 -56 -36 -42 -18 06-6 -13 -16 128 -21 79-711- 701- 26--19 -21 -58 -71 -97 6 148 6 -32 -22 -35 6 -18 -23 -25 -53 -77 -11 -84 -22 -24 -25 4--37 4 -25 -63 -20 4 -10 -24 04-S 8 -23 -21 -15 -15 -15 -25 -25 -16 -17 -24 -33 -44 -24 12 ~ -70 -31 -29 -28 -27 -76 -22 -15 -28 64-15 -23 9--26 -27 9--12 15 3 -57 -23 -22 -10 -39 10 7--17 -28 -27 94--3 C 7 12 -23 6 -23 -10 4 6 -31 -45 -34 -24 -20 -18 -28 -28 2- ∞ 5 ۳ • -37 -25 -25 -13 9--23 9 -11 7 -10 -30 5 7 2 C -31 -27 -34 -17 -14 -28 -28 2 d -16 -35 -34 6 4 -39 -34 -35 61-5 7 07--15 e, 6 -52 -45 -43 -35 -25 -38 -10 7 -45 -19 9--29 -43 -25 -51 14-16

THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE Z DEFLECTIONS IN MATRIX TOF123 COLUMN OI

	59	28	23 25 26	19 20 20	4 14 16	9 8 10 13	6 4 3 9 15	4 5 8 15	3 6 10 16 23	7 13 20 27 32	3 19 25 32 39	27 32 38 46	39 43 46 56 63	57 62 69 77	1 78 84 94	93 100 108	7 115 123	951	6	
	26 2	25	20	18	13	10	7	4	6	1		23	34 3	52	64 71	85	98 107	120	133 139	
	21	21	17	16	13	10	6	9	9	\$	12	2	59	45	55 6	16	88	011	122 1	
50	14	16	12	13	11	11	10	80	0	6	12	18	23	37	45	65	75	66	110 1	134
5 12	7	2 10	7	10	11	2 11	12	3 11	11	10	11	9 14	15	7 28	33	53	29	86	97 1	123
-	С		-	6 7	10	4 13	15	6 1	13	1 10	œ	4	9	3 17	50	8 40	64	9 72	83	6 110
	-5	9- 0-	\sim	œ	-11	6 1	17	9	15	2 1	7	c	£-		α	19 28	38	٦٥ 59	7.1	82 96
	3	7 -	7	13	14	20 1	21	23 1	18	15 1	7	2	9-	-4 -10	α'	14 1	31	۲ 2 کا	19	œ
	6	15	14	20	20	26	25	28	25	20	=	α	7		m	12	25	36 4	53	
	16	54	22	28	56	33	31	35	α ~	27	18	14	S	4	4	11	22	31	777	
			32	39	34	43	39	75	36	34	25	25	12	10	4	12	20			
	i		77	54	47	54	48	50	75	41	32	8	19	17	12	15	19			
					62	6 8	29	60	50	48	38	34	54	21	17		1			
							7.1		58	53	43		27				1			
				1				1				17					1			

THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE Z BEFLECTIONS IN MATRIX IDF123 COLUMN OF

			œ	8 8	6 9	6 9 4	6 4 7	2 5 7	ري م	2 4 7 9	3 5 8	2 5 7	6 2 7	6 9 7	6 9	α	æ			
		9	æ	4	4	~:	2	0	~	-	-	c	~	2	4	4	9	9		
	9 9	\$	3 4	9	0 2	0	2 -0	-2	4 -2	- 7-	4 -2	-5	0 2	0	1 2	e	4 5	ĸ	7 7	
		4		-		<u>ر</u> ا	-2	7-	7-	-5	7-	7-	-2	•		2		ւ	•	
œ	5	4	~	0	7	<u>۳</u>	-3	-5	-5	9-	7	-5	-3	-3	-1	-	4	4	9	6
α	9	4	~	0-	-2	7-	7-	9-	-6	9-	9-	9	7-	-3	ī	0	2	4	ç	6
α	v	4	~	0-	-2	7-	-5	9-	9-	9-	9-	9	-5	4-	-2	0	2	4	4	σ
6	4	5	~	0-	-2	4-	-5	9-	9	9-	9-	5	5-	7-	-2	c	2	Ŋ.	7	10
6	7	r,	~	-	-2	-3	-5	-5	4	-5	9-	٦-	ر <u>ا</u>	-3	2	-		S	7	10
	7	9	е	2	T	-5	-3	-3	7-	7-	7-	۳	7-	-2	7	2	~	9	80	- Application of the state of t
	c c	7	5	4	1	_	-2		<u>.</u>	-5	-3	-5	-2	a	7	3	4	٠	80	W. V-AMMAND OF BRIMING-WAVE
	6	8	9	5	М	e	C	1	ī	0-	7	0	0-	2	2	4	Ŋ	7	œ	
			α	7	ហ	4	2	2	1	-	1	-	N	3	4	9	9			
			10	6	9	9	3	3	-	~	1	~	~	3	4	7	88			
					6	αc	S	4	c	2	2	∼	3	7	ç					
							7		4		2		e							
										, w	18					and the second s				

THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE Z DEFLECTIONS IN MATRIX IDF 123 COLUMN 03

-91 -105 -119 -131 -142

-139

-128

-90 -102 -116

-78

-68

09-

-52

-39 -23 -71 94--33 -53 -21 29--15 201- 06--12 -23 747 -15 128 -116 -27 -19 -13 150 -7 -33 -7 99--15 -34 901- 26--12 -17 -45 -20 -7 9--41 -51 -64 -77 -90 -102 -111 -121 -35 -44 -52 -59 -28 -23 -11 7-9--6 -13 -19 -24 -29 -33 -135 -9 -10 -12 -14 -15 -12 -39 -74 ソント -35 9 ī -10 -2 -20 -88 -90 -103 -114 -125 -21 2 -65 -23 7--33 5--31 _ -17 -17 0 -2 2 178 126 -26 -52 6[-8 5 7 -14 -13 99-3 4-7--19 -14 -19 77--7 9-7--13 -25 -10 6--53 9œ 7--32 -12 α œ 1 5 15 -111 -76 05-1 α, 5 5-6-9---3 -19 8 2 9 -10 7d -64 -28 9--5 -11 7 _ 7-61 -13 -7 5 7--10 7 ~ -15 -55 -13 13 6 1 -20 4 -26 -27 -29 -34 -10 -13 -18 -14 -3 10 6-T -20 -12 9 147 -19 -15 -12 -16 _ -16 -18 -20 6--24 -21 2 4--27 -45 -24 -26 -19 -15 -21 9-7 -24 -29 -27 -27 -32 -17 5 9--35 -38 -36 -33 -27 -15 9--15 -25 -38 -36 -39 -41 -13 8 77-94-94--35 -23 -13 -18 -53 -33 -53 -16 -51 77--21 -20 -53 -63 -59 24--29 -21 -63 -53 -27 -39 -25 -75 -36 -50 -62 -45 -30 -77 -56 19

-27

61-

-13

6-

2- 21 - 61 - 52 - 15

TOP 131 COLUMN MATRIX Z DEFLECTIONS IN H DICH OF AM APPROXIDATE POSITION AND QUANTITY IN MILLIONTHS Ħ

-18 -17 -16 -15	-17 -16 -14 -13 -12 -11 -11 -10 -11 -12	-16 -13 -11 -10 -9 -7 -7 -7 -8 -9 -11	-19 -15 -11 -9 -6 -5 -4 -3 -3 -4 -6 -8 -11 -15	-18 -14 -10 -7 -4 -1 0 / 1 1 -0 -2 -5 -7 -11 -16	-17 -12 -10 -6 -2 1 3 4 4 3 2 -1 -4 -7 -11 -16	-15 -11 -8 -5 -1 3 6 7 7 7 5 3 0 -4 -7 -11 -17	-12 -9 -6 -4 -1 3 7 9 10 9 8 7 4 0 -4 -8 -13 -17	-8 -5 -3 -1 3 6 9 11 11 10 7 4 -1 -5 -9 -14	-7 -5 -3 -1 2 5 8 11 12 11 10 8 3 -1 -5 -10 -15	-6 -5 -3 -2 0 4 7 10 12 12 11 9 7 2 -3 -7 -13 -17	-5 -4 -2 -1 2 5 9 11 12 12 11 10 7 3 -2 -5 -10 -15	-4 -3 -2 -0 3 6 9 11 11 11 9 7 4 -1 -5 -9 -14	-5 -5 -4 -3 0 4 7 9 9 9 8 6 4 -0 -5 -8 -13 -18	-8 -6 -5 -4 -0 3 6 7 / 6 5 3 -0 -4 -8 -12 -17	-11 -9 -7 -4 -1 1 3 4 3 3 1 -1 -4 -8 -11 -17	-13 -11 -9 -6 -3 -2 -1 -0 -0 -1 -3 -6 -8 -12 -16	-15 -12 -10 -8 -7 -5 -5 -4 -4 -6 -7 -9 -12 -16	-14 -12 -11 -10 -10 -8 -8 -8 -9 -10 -12	-16 -15 -14 -14 -13 -12 -12 -13 -13	-19 -19 -18 -17 -17
-----------------	---	---------------------------------------	--	--	--	--	--	---	---	---	--	---	--	---	--	--	--	---	-------------------------------------	---------------------

-29 -12 -61 -21 -13 -13 -12 -14 -19 -24 -30 -37 -13 -45 -15 -92 -52 -57 -61 -67 α -19 -37 -106-13 -13 6--45 -25 2-183 -19 -21 -24 -30 -38 -48 -62 -75 -87 -97 -106 -114 -122 -13 -18 1-7--31 -45 F 23 9--77 7--27 -18 -92 -26 3 1-7--128 -32 -26 -19 -14 -11 -11 -12 -13 -13 -13 6--39 -28 9--71 -137-2 -24 -85 -15 -20 -24 -17 -10 7--109 -119 -19 -35 -24 8 4--64 -131 20--17 -29 -38 -45 -16 9-94-= 1--16 -56 -30 -19 61 1 -121 -19 61 -12 -13 -65 **-**98 -10 -18 -24 -13 -12 -45 -10 -108 -11 6--12 -16 -10 -10 -50 -42 -35 -28 -23 -20 -17 -14 -12 -12 -53 -85 -10 -12 -13 -17 -95 9--34 -14 S -10 05--13 -12 -3 7--71 7 -7 -14 -82 -16 -21 7 7--15 5 -5R -12 -28 1 9-18 -18 -16 6 -70 3 ī 2 64--17 -13 10 -8 -19 7 -19 8 -22 09-9-2 ហ T -21 -16 -14 -41 9 -13 -3 4 -23 -26 -12 -7 -13 6 0 -51 -26 -35 -21 -19 -22 -13 -12 φ • 7 -43 -37 -31 -25 -18 -29 -31 -14 -20 24--5 7--33 -27 -3 -30 -26 -10 -14 -35 -30 -39 6 -34 -45 -11 -37 -21 -10 95- 09--45 -18 -58 -47 -16 -13 -53 04--52 -27 -50 99-147 -58 -27 -52 22

THE Z MEFLECTIONS IN MATRIX TOFIZE COLUMN OF THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF

-80 -94 -108 -121 -132

7	
2	
וא	4
- 91	
1	

10 -14 -10 -3 4 11 16 18 -9 -14 -4 4 9 14 17 1 -3 -2 4 9 14 17 15 14 14 14 15 14 13 10 27 26 23 21 18 15 11 6 27 26 23 21 18 15 11 6 27 26 25 22 19 15 10 6 28 25 24 22 19 15 10 6 29 14 19 24 27 27 27 -0 5 15 24 31 35 38 39 -4 10 23 34 42 47 56 63 67 17 28 40 53 64 73 80 25 33 45 58 71 82 91 99	62
--	----

THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE Z DEFLECTIONS IN MATRIX TOF132 COLUMN OR

THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE Z BEFLECTIONS IN MATRIX IDF132 COLUMN 03

-7 -6 -5 -4 -4 -4 -4 -5 -4 -4 -4 -4 -4 -4	-8 -6 -5 -4 -3 -2 -1 -1 -1 -2 -2 -3 -4 , , , , , , , , , , , , , , , , , , ,	-7 -5 -4 -3 -1 -1 0 0 0 -0 -1 -2 -3 -4 -6 -7 -5 -4 -2 -1 1 2 2 1 1 -0 -1 -3 -4 -7	-6 -4 -3 -2 -0 1 3 3 3 3 3 1 0 -2 -3 -5 -7	-5 -4 -2 - ₀ 1 3 4 4 4 3 3 2 0 - ₂ - ₃ - ₅ - ₇	-3 -2 -1 -0 1 3 4 4 4 4 4 3 2 -0 -2 -3 -5	-3 -2 -1 -1 1 2 3 4 5 5 5 4 3 1 -1 -2 -4 -6	-2 -2 -1 -1 0 2 3 4 5 5 5 4 4 3 i -1 -3 -5 -7	-2 -1 -1 -0 1 2 3 4 5 5 5 4 3 1 -1 -2 -4 -6	-2 -1 -1 -0 1 3 4 4 4 4 4 4 3 2 -0 -2 -4 -5	-2 -2 -1 -1 0 1 3 3 4 4 4 3 3 1 -0 -2 -3 -5 -7	-3 -3 -2 -1 -0 1 3 3 3 2 2 1 -0 -2 -3 -5 -7	-4 -3 -2 -1 1 1 1 1 0 -1 -2 -3 -5 -7	-5 -4 -3 -2 -1 -1 -0 -0 -0 -1 -1 -2 -3 -5 -6	-6 -5 -4 -3 -3 -2 -2 -2 -2 -2 -3 -4 -5 -6	-6 -5 -4 -4 -4 -3 -3 -4 -4 -5	-6 -6 -5 -5 -5 -5 -5 -5	-8 -7 -7
---	---	--	--	---	---	---	---	---	---	--	---	--------------------------------------	--	---	-------------------------------	-------------------------	----------

9-

4

4

1-

__

57 25 19 12 2	10 15 19 21 17 10 2 -5 -9 -11 1 5 10 15 19 9 1 -5 -9 -11 -11	-15 -9 -4 -0 3 6 4 -2 -7 -10 -11 -11 -8 -4	-27 -18 -12 -10 -7 -6 -6 -8 -11 -13 -12 -11 -8 -3 3	-37 -28 -19 -18 -17 -16 -16 -17 -17 -15 -12 -8 -3 2 9	-45 -38 -31 -26 -24 -25 -26 -25 -23 -22 -19 -15 -10 -3 3 8 12	-52 -45 -38 -33 -30 -30 -31 -31 -29 -27 -23 -19 -13 -6 3 10 10 12	-48 -42 -37 -33 -32 -32 -33 -32 -30 -27 -23 -17 -10 -3 2 5 6	-48 -43 -38 -34 -31 -31 -31 -31 -39 -26 -21 -14 -8 -4 -2 -1 1	-44 -41 -36 -32 -28 -27 -26 -27 -29 -29 -26 -20 -12 -9 -9 -9 -7 -6	-36 -32 -28 -23 -21 -20 -20 -23 -26 -29 -29 -27 -22 -19 -17 -16 -15	-27 -23 -18 -14 -12 -12 -14 -20 -26 -30 -32 -32 -29 -26 -25 -25 -25	-19 -16 -13 -7 -5 -5 -4 -10 -20 -29 -36 -39 -40 -38 -36 -34 -35 -36
---------------	---	--	---	---	---	---	--	---	--	---	---	---

-51

-49 -51 -51 -50 -51

-8 -7 -2 2 -0 -0 1 -14 -27 -37 -45

16.8

14-

-66

-65

-42

-57

-39 -49

-13 -26

7-

7

 \sim

_

0-

-83

-83

-80

-77

-71

-63

-53

04-

-27

-17

6-

-3

2

t

ហ

-13 -21 -30 -42 -56 -69 -79 -87 -93 -98 -100

-96 -105 -110

-73 -86

65- 55-

-26 -34

-10 -18

-7

7

t

-91 -104 -114 -118

-78

-50 -64

-39

-30

-20

-96 -109

-68 -83

THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE Z BEFLECTIONS IN MATRIX TOF 133 COLUMN OF

16 17 13 17 10 15 10 15 14 13 18 17 17
--

04-98--30 -24 -17 -11 -11 -16 -23 -32

-9 -16 -22 -28 -33 -38 -2 6--17

04--34 -30 -26 -21 -15 -10 5 9--12 -45 -61 -22 -18 -14 -10 7-9-6--17 -27 -37 -52 -71 -8 -11 -14 -17 -21 -24 -31 -7 9--8 -12 -42 -31 -21 -77 -58 7 -12 6-1-9-ا ر 4 1--11 -18 -27 -38 -50 -64

-27 ď 9 3 2 2 7-9-6--15 -25 -35 -43 -54 19-

6-3 -0 -3 9--17 -11 -36 -25 -45 -68 -55

C 4 3 ^ C 2 L) -10 -17 -27 -37 -45 -55 -65

0-13 8--17 -27 -36 77-

3

5

9-

5

147

-3 -4 -10 -20 -30 -41 -53

-2

~

~

9-

-26 -16

-41 -34

-58

62-71--10

-59

146

98-

エハー

5

_

9

 ∞

4

-5

-15

-24

-31

-38

28

-31 -24

-7

2

11

13

4

-5

-14

-22

-29

-16

-43 -52 -33 -22

~

16

ī

-7

-15

-80 -93

-61 -69

-109

- AG

-75

-1111 -123

-91 - 101

64-

19-

-39 -47

166 -10

-55 -43 -30

-17

0-

-5

8

-11

-20

-27

-18

-19

-22

19-S.

-54 04--29 -20 -17

-43 -53 -66 -79 -93 -105 -115 -126 -138 -130 -141 -93 -107 -11P -80 168 65--37 -55 -33 -47 -31 -45 -31

-151 -145 -133 -108 -121 -95 -84 -75 **-**67 -59

-150 -100 -113 -127 -139 THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE Z DEFLECTIONS IN MATRIX TOFIAL COLUMN OL

R8 101

-35 -33 -27 -19 -9 -18 -22 -25 -27 -23 -14 -7 0 4 6	-8 -11 -15 -19 -23 -12 -4 2 K 7 K	7 3 -1 -3 -6 -8 -6 1 6 8 8 7 3 -3	19 12 7 6 6 6 6 9 11 12 11 8 4 -2 -10	29 23 15 15 16 17 18 19 18 16 12 6 -0 -7 -16	39 33 27 23 24 26 29 28 27 25 21 16 10 1 -7 -13 -20	46 40 36 31 30 31 34 35 33 31 27 22 15 6 -4 -14 -15 -20	44 40 36 33 35 37 37 35 32 27 20 12 3 -4 -9 -12	45 41 37 33 32 33 35 36 36 31 26 18 10 3 -0 -4 -8	42 39 35 31 28 28 29 32 34 35 34 31 25 15 10 8 5 2 -1	34 31 27 23 22 22 24 28 31 34 34 32 26 20 16 14 11 8	8 25 22 17 14 14 15 18 25 31 35 37 35 31 26 23 21 19	17 14 11 6 5 6 7 14 25 33 39 42 41 38 34 30 31 28	5 4 -0 -3 0 2 2 17 30 40 47 50 51 49 47 46 44	-4 -5 -11 -4 1 5 14 27 40 50 57 61 63 63 62 61	-11 -9 -6 0 7 16 27 40 52 63 70 74 77 77 76	-11 -4 2 9 18 28 40 54 67 77 84 89 92 93	3 12 21 30 40 56 70 R2 92 100 105	12 23 33 44 58 72 86 98 108 112		46 46 34 34 17	39	19 19 333 335 -111	33 31 34 -9 -	-18 -8 -1 -1 15 23 33 30 32 -4 -4 -6 -6	-22 -11 -11 -11 -22 -24 -24 -26 -26 -26 -14 -14 -17 -17 -11 -11 -12 -11	-75 -6 -6 -6 -6 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7	28 35 35 44	333333333333333333333333333333333333333	14 14 11 11 11 11 11 11 11 11 11 11 11 1	-19 -4 -4 -4 -4 11 18 27 27 33 34 34 36 50 50 50 70 86	2 8 12 116 21 22 27 22 24 42 42 42 42 63 63 98 98	4 4 1 11 11 11 11 11 11 11 11 11 11 11 1	20 20 10 10 112 10 10 10 10 10 10 10 10 10 10	266 266 266 277 77 77 77 77 77 77 77 77 77 77 77 77	-2 -3 -14 -14 -14 -14 -14 -14 -14 -14 -14 -14	1	20 -20 -20 -8 -8 -8 -8 -8 -8 -8 -8 -8 -8 -8 -8 -8	
--	-----------------------------------	-----------------------------------	---------------------------------------	--	---	---	---	---	---	--	--	---	---	--	---	--	-----------------------------------	---------------------------------	--	----------------	----	--------------------	---------------	---	--	---	-------------	---	--	---	---	--	---	---	---	---	---	--

-24 -23 -21 -10 - 15 -2 5 -17 -13 1 0 -16 <u>ن</u> 7 -10 -10 -11 6 r -15 91 2 α 7 -15 ٦ S 0 -15 7-Q _ -17 ر. ا Q -14 -13 10 C 1-5 2 σ -20 6-2 91-5 4 -23 -23 -19 -10 7 -17 8 -15 -14 -21 -20 -11 -24 -18 -27 -15 -21

-15 -12 α, 9-2 7 0 5 ø 9 1 14 14 12 16 16 14 17 16 14 17 15 15 13 10 7 0 S ∞ 4 m 7 7 9-~ r) 6-7--14 1--12 -10

-24

-18

7-

2

-15

-13

-12

1-7 N 0-C S C σ 13 12 15 16 15 13 13 10 σ S 4 C 3 -5 7-9-8 30

9--8 Q I ល 2-4 7 5 10 0 S 10 7 5 -2 2 N 5 2 0-61 2 5 -12 8 -16 -12 6--16 -12

σ

o

-17 -13 -10 8 -6 9-18 -12 -15 α

-23

-12

-16

-18 -15 -13 -12 -15 -12 -14 -15 -16 α.

-24 -25 -27 -28

-18

-18

-18

-18

-19

-20

-21

TOTAL COLUMN 03 MATERIX DEPLECTIONS IN N H 6 LICH AM MILLIONTHS OF POSITION AND QUANTITY IN APPROXIMATE

-97 -111 -124 -135

```
-32
                                                                                                                                          -19 -25 -32 -40
                                                                                                                                                                    74-
                                                                                        -10 -16
                                                                                                     -16
                                                                                                                                                                                 -78
                                                               -17
                                                                                                     α:
                                                                                                                                                       001
                                                                            C -
                                                                                                                                                                                 -70
                                                                                                                              -20
                                                  -21
                                                                                                                                                                                                          -94 -101 -109
                                                                                                                                                                   177-
                                                                                        ۳
                                                               -63 -48 -34 -27 -20 -14 -11 -10 -10 -11 -13 -13 -14 -14 -15
                                                                                                                  0
                                      127
                                                                                                                                                                                                                      -124
                                                                                                    -5
                                                                           0
                                                                                                                              71-
                                                                                                                                                                                 -63
                                                                                                                                                       25-
                                                  02-
                                                                                                                                                                    -43
                                                                                                                  ν
1
                                                                                                                                                                                             ストー
                                                                                                                                                                                                                      -98 -108 -116
                                      125
                                                                                         7-
                                                                                                     7- 7-
                                                                                                                                                       -27
                                                                                                                                                                                -57
                                                                            7
                                                  0[-
                                                                                                                              __
                         -21 -25 -28
                                                                                                                                                                                                                                   -130
                                                                                                                 ۳,
                                                                                                                                                                   -23 -29 -34 -39
                                     -20 -23
                                                                                        9-
                                                                                                                                          -11 -13
                                                                                                                                                                                             -64 -72
            130
                                                                                                                                                                                                                                                -139
                                                                                                                                                                                -52
                                                                                                                                                                                                          -86
                                                  -18
                                                                                                                                                       -23
                                                                           -10
                                                                                                                              7
                                                                                                                                                                                                                                   121-111-66-
                                                                                       -7
                                                                                                                  7
                                                                                                                                                                                                                                                -84 -97 -111 -123 -134
                                                                                                    ار
                                                  1
                                                                            0
                                                                                                                              ٧-
                                                                                                                                                        -20
                                                                                                                                                                                -37 -45
                                                                                                                                                                                                          -76
           -15 -21
                                     -17
                                                                                                                                                                                                                      -19 -21 -23 -26 -31 -39 -49 -62 -76 -88
                                                                                                                                          -43 -38 -32 -25 -17 -11 -7 -6 -8 -10 -11 -12
                                                                                                                                                                                            -33 -45 -55
                                                                                      -10 -8
                                                                                                                 <u>د</u>
                                                                                                    -61 -51 -42 -35 -28 -22 -18 -15 -12 -10 -8
                                                                                                                                                                                                       -65
                                                                                                                                                       -18
                         -16
                                                  -13
                                                                           -
                                                                                                                             α
1
-21
                                     -12
                                                                                                                 -10 -8
                                                                           -11
                         -10
                                                                                                                                                                                                          -53
-13
                                                  0[-
                                                                                                                                                       71-
                                                                                                                                                                                                                                   - B6
                                                                                                                             6-
                                                                                                                                                                                -3 - 16 - 28
                                     __
                                                                                                                                                                   -15
                                                                                       -31 -25 -21 -17 -14 -12
                         -3
                                                                                                                                                       6
                                                                           -12
                                                                                                                                                                                                                                   -73
                                                  1-
                                                                                                                                                                                                          07-
 <u>د</u>
                                                                                                                              -10
                                                                                                                                                                                             -20
                                                                                                                 -15
                                      2
                                                                                                                                                                    1
             ī
                        S
                                                                           -14
                                                                                                                                                                                                          -28
                                                                                                                              0 -
                                                                                                                                                                                                                                   19-
                                                  9
                                                                                                                                                       <u>۳</u>
2
                                                                                                                 -18 -14
                                                                                                                                                                                             α
                                                                                                                                                                                                                                                -72
                                     -2
                                                                                                                                                                   3
                        -8 -0
                                                                                                                                                                                 11
                                                                           91-
                                                                                                                              =
                                                                                                                                                                                                          -19
                                                                                                                                                                                                                                   -51
2
                                                  8
                                                                                                                                                        C
                                                                                                                                                                                                                                                -62
                                     __
                                                                                                                                                                                             2-
            6
                                                                                                                                                                   _
                                                                           -20
                                                                                                                             -15
                                                                                                                                                                                4
                                                                                                                                                                                                          71-
                                                                                                                                                                                                                                   -43
                                                  -13
                                                                                                                                                       2-
                                                                                                                 -28 -22
                                      71-
                                                                                                                                                                                             -3
                                                                                                                                                                                                                                                -54
            0
                                                                                                                                                                    _
                                                                           -26
                                                                                                                             -20
                                                                                                                                                                                                                                   -37
                                                                                                                                                                                                          -13
                        -25 -16
                                                  -21
                                                                                                                                                       Œ
                                                                                                                                                                                 7
                                      -25
            -17
                                                                                                                                                                   S
                                                                                                                                                                                             <u>ا</u>
                                                                           -34
                                                                                                                                                                                                                                   -32
                                                  -28
                                                                                                                             -27
                                                                                                                                                       -14
                                                                                                                                                                                7-
                                                                                                                                                                                                          -12
                                                                                        04-
                                                                                                                 -36
                                     -32
                                                                                                                                                                   -12
                                                                                                                                                                                             S
                                                                                                                             -34
                                                                           -43
                                                  07-
                                                                                                                                                       -22
                                                                                                                                                                                                          -13
                                                                                                                                                                                -11
                                                                                       -48
                                                                                                                 -43
                                                                                                                                                                   -19
                                                                                                                                                                                             -12
                                                                                                                                                                                -22 -17
                                                                                                                                                       42-
                                                                                                                                                                                                          -15
                                                                                                                              -41
                                                                                                                                                                                             -17
                                                                           -68
                                                                                                                                                       -34
                                                                                                                             -48
                                                                                                                                                    31
```

-5 3 9 14 16	=6 2 8 12 15 15 3 8 12 14 14 13 10	11 13 13 11 8	15 15 13 10 6 2 -2	2- E- N- r N 41 71 91 NS	23 20 16 11 6 -1 -6 -5 -5	25 23 19 14 8 3 -0 -2 -0	24 22 17 11 7 4 4 5 6	24 24 21 16 9 9 10 12 13 13	24 24 23 19 17 17 19 20 22	21 26 29 29 28 27 27 29 31	26 32 36 38 39 38 37 42 44	24 35 43 48 51 53 54 56 59
-3 -6 -13 -16 -12 -5	~	24 16 12 9 7 6 8		52 42 34 28 25 23 23 22 20 19		į						

THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE Z BEFLECTIONS IN NATRIX IDFIA COLUMN OF

N

ī

7-

 \sim

ហ

P7

0 7

N

^

97_103_106

U6

<u>ا</u>

611 601 96

-10 -10 -9 -9 -8 -8 -1 -1 -9 -9 -9 -9 -8 -9 -9 -9 -9 -9 -9 -9 -9 -9 -9 -9 -9 -9	-5 -4	-10 -8 -6 -4 -2 -1 0 0 0 -0 -1 -3 -4 -6 -9	-10 -7 -6 -3 -1 1 2 2 2 2 1 -0 -2 -4 -6 -9	-8 -6 -5 -3 -1 2 4 4 4 4 3 2 0 -2 -4 -7 -10	-7 -5 -4 -2 -0 2 4 5 6 5 5 4 2 0 -3 -5 -7 -10	-5 -3 -2 -1 2 4 5 6 6 6 4 2 -0 -3 -5 -8	-4 -3 -2 -1 1 3 5 6 7 7 7 6 4 2 -1 -3 -6 -9	-3 -2 -1 0 2 4 6 7 7 7 6 5 4 1 -2 -4 -7 -10	-3 -2 -1 -1 1 3 5 6 7 7 7 6 4 2 -1 -3 -6 -9	-3 -2 -1 -0 2 4 5 6 6 6 5 4 2 -0 -3 -5 -8	-3 -3 -2 -2 0 2 4 5 5 5 4 2 -0 -3 -5 -7 -10	-5 -4 -3 -2 -0 2 4 4 4 4 3 2 -0 -2 -5 -7 -10	-6 -5 -4 -3 -1 1 2 2 2 1 1 -1 -3 -4 -7 -10	-8 -6 -5 -4 -2 -1 -0 -0 -1 -2 -3 -5 -7 -9	-9 -7 -6 -5 -4 -3 -3 -2 -3 -4 -5 -7 -9	-R -7 -6 -6 -5 -5 -5 -5 -6 -7	-9 -9 -8 -8 -7 -7 -7 -8	-11 -11 -10 -10	
---	-------	--	--	---	---	---	---	---	---	---	---	--	--	---	--	-------------------------------	-------------------------	-----------------	--

THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE Z DEFLECTIONS IN MATRIX TDF 142 COLUMN 03

8 20 00 -10 20 2 15 4 10 13 ~ C 2 6 -3 -16 4 -26 -10 7 4-9-9--10 -20 1--12 -15 30 0 [-13 a I -12 -15 <u>8</u> -26 7--16 -20 -35 -25 -26 -32 8 -16 -22 0 -12 -27 -37 -31 -21 -18 -34 1 -27 -31 -32 -25 -34 -35 -19 -35 -34 14 7 -31 -35 -27 -35 -31 -18 -33 -36 23 v -31 53 201 -37 -25 9--34 -35 -36 - 18 α -24 -28 27 19 -18 66--37 -35 9--34 -35 -17 25 9 90--35 66--15 9-15 -23 -22 -22 -16 -31 -33 22 ~ -33 -33 -14 -24 -28 7 0 -15 -32 2 -30 α -28 -14 -23 1--33 -15 m -31 -36 -27 -17 -12 -31 -37 -27 04--22 -33 -35 -39 -25

-28 -61 -31 -30 -93 -34 -92 67--77 -38 -63 -89 -74 -51 -84 -41 19--50 24--77--57 74--63 -39 -67 -50 07--52 -54 -33 04--30 04-04--25 -27 -17 -27 -14 -14 -28 -2 -16 S -7 -18 -2 -7 9-7 0-0 -5 2 4 9 9-d σ -11 ហ 7-4 -5 -17

-105 -100 -98 182 -70 -56 07--30 -21 -12

-101 -88 -75 -59

-108

-86

-72

-58

77-

-33

THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE

Z DEFLECTIONS IN MATRIX IDF143 COLUMN 01

THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE 2 DEFLECTIONS IN MATRIX TDF143 COLUMN 02

25 23 20 19 17 15 15 16 17	23 19 16 14 13 10 10 11 13 16	27 21 17 13 9 7 5 4 5 6 9 11 15 21	26 20 15 10 5 2 -0 -1 -1 1 3 7 11 16 23	24 18 14 8 3 -2 -5 -6 -6 -5 -2 1 5 10 16 24	21 15 11 7 1 -4 -9 -10 -11 -10 -8 -5 -0 6 11 17 24	18 14 9 6 1 -5 -10 -13 -14 -14 -12 -10 -6 -0 6 12 18 25	12 8 5 1 -4 -9 -13 -15 -16 -16 -14 -11 -6 1 7 13 20	10 7 4 2 -3 -8 -12 -15 -17 -16 -14 -11 -5 2 8 15 22	8 7 4 2 -1 -6 -11 -14 -17 -18 -18 -16 -14 -10 -2 4 11 18 24	7 5 3 1 -3 -8 -12 -15 -17 -16 -14 -11 -5 2 8 15 22	02 61 7 1 9- 01- 61- 31- 15 -18 -10 -6 1 7 13 20	8 7 5 4 -0 -5 -10 -13 -13 -12 -9 -5 0 7 12 18 25	12 9 8 5 0 -5 -9 -10 -9 -7 -4 1 6 11 17 25	16 12 11 6 2 -2 -5 -5 -4 -1 2 6 11 16 24	19 16 12 9 5 2 1 0 1 2 5 8 12 17 23	22 18 15 12 9 8 7 6 6 8 10 13 17 23	21 18 16 15 14 12 13 15 18	23 22 21 20 19 18 18 18 19	28 27 26 25 24
----------------------------	-------------------------------	------------------------------------	---	---	--	---	---	---	---	--	--	--	--	--	-------------------------------------	-------------------------------------	----------------------------	----------------------------	----------------

THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE Z DEFLECTIONS IN MATRIX TDF143 COLUMN 03

-54 -69 -50 -86 -63 -45 -59 04--74 -55 68-69--39 -51 -83 -36 -63 97--35 -56 -40 -65 94--27 -31 -53 -35 -20 -20 0 5 --22 -11 9--28 -10 7 1 -18 2m -12 m -3 7 6-1 -5 -2 -2 1--10 α 1 -17 8 -13 8 -12

37

-116 -95 - 103 - 110-115 - 123-106 -60 -73 -85 -95 -82 -68 24--55 -36 -45 -28 12--21 -30 -17 -25 -14

-46 -55 -65 -77 -91 -104 -116 -127

-132

-73 -87 -102 -114 -126

THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE Z DEFLECTIONS IN MATRIX IDF 211 COLUMN

-9 -9 -4 3 12

50 24 41 41 41 55 55 55 55 55 55 55 55 55 55 55 55 55	53 59 48 56 56 56 31 16 11	33 44 40 48 47 41 41 41 41 41 41 41 41 41 41	28 31 31 40 40 40 24 24 7 7 7 6 6	15 15 15 15 15 15 15 15 15 15 15 15 15 1	29 5 1 10 1 5 1 6 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8		- 4 - 7 - 1				15 14 14 15 15 15 16 16 17 17 17 17 17 17	17 17 17 18 18 19 19 19 18 19 19 19 19 19 19 19 19 19 19 19 19 19	20 20 20 112 115 115 115 120 20 20 20 20 20 20 20 20 20 20 20 20 2	21 1 15 15 15 15 15 15 1	1 14 14 7 2 00 2 0 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	33 33 33 62 68		30 53	
				35	1	i I		1 1			115	126	131						
24	16	13	7 9 1	6 6 23	6 66 66	2- 12 12	-7 -1 118 118 -44 -44 -44 -44	288	400 400 1000	32 53 81 113	33 40 56 65 84 94 115	74 747 701	2 8 1		588	66	89	E	

THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE Z DEFLECTIONS IN MATRIX TDF 211 COLUMN 02

-] -] -] -] -] -] -] -] -] -] -] -] -] -	-1 -1 -0 -0 -0 -0 -0 -0 -0	U- U- U- U- U- U- U	-1 -0 -0 -0 -0 0 0 0 -0 -0 -1 -1	0- U-	-0 -0 0 0 0 0 0 0 0 -1 -1	Ĭ	0 0 0 0 1 1 1 1 0 0 0 0 -0	С	-0 0 0 0 0 0 0 -0 -0 -0 -1	-0 -0 0 0 0 0 0 0 0 -0 -1 -1	0- 0-	[- v- v- v- v- v- v v v v v v v 0 0 0 0 0	-0 -0 -0 -0 -0 0 -0 -0 -0 -0 -0 -0 -0 -0	-1 -1 -0 -0 -0 -0 -0 -0 -1 -1	-1 -0 -0 -0 -0 -0 -0 -0 -0	-] -] -] -] -] -] -] -] -]	-1 -1 -1
		ī		0- 0- 1-			c			0- 0- 0- 0-	0-	0-	1	-	-		

-23 9--15 -54 -22 -27 -31 -2 -4 -8 -5 -39 69-20 64--63 -16 78--13 7--42 -7 -13 -13 -12 -10 -9 -19 -58 -12 -14 7--30 ر. ا -18 61-7-04-2 -55 -15 œ 12--7 -6 -12 -17 -20 -22 61-9-7--15 -39 9--23 -40 -46 -51 -15 -25 -10 5 -17 -17 -15 -36 -20 6-9-6 -15 21-76-7 -14 -33 -15 -12 -11 -13 -14 -16 -13 -15 -23 -13 -13 -10 -15 -12 -14 -17 -18 -15 -27 -10 -31 -15 -16 -20 -17 5 -17 -20 7 -7 -20 -16 -29 -26 -23 -21 -19 -17 œ -15 -13 -12 -19 -19 9 _ -11 -17 61 -18 9 9--20 -22 -2 œ _ _ -17 -20 S -1 -5 -41 -36 -30 -24 -19 -14 -12 -41 -29 -23 -19 -14 -24 -22 6-3 4 -19 -25 -5 3 -11 -25 -27 6 7 7 -22 -25 7 -17 6 -29 8 -16 -31 -5 -40 -34 -2 -22 -28 -14 -31 -24 -35 -37 -10 -7 -35 -39 -20 -33 -45 -41 -17 -56 -48 -17 -13 65--26 -39 -48 -22 -54 09--31 -55 -64 -24 -50 40

-94 -103 -110 -116 -123 -115 -105 -85 76--60 -73 -82 -68 -36 -46 -54 -45 -14 -17 -21 -27 -37 -30-24

-100

P89

-82

-74

-65

-53

04-

-28

-18

-12

6

-1

-

-78

74-

69-

-63

-56

94-

-35

-22

-10

2

6-

-2

0

-7

-111

-36 -45 -54 -64 -77 -90 -104 -116 -126 -13

-73 -87 -101 -114 -126

THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE Z DEFLECTIONS IN MATRIX TDF 212 COLUMN OI

-9 -9 -4 4 12 7 0 -5 -9 -6 1 8 15 20 23	-5 -10 -1 6 12 17 20	34 24 15 9 3 -1 -1 5 10 14 17 18 19 18	44 32 22 16 11 7 6 8 10 13 15 15 15 14 12	53 40 28 23 19 15 13 12 13 14 13 12 10 8 7	60 48 38 31 25 22 20 18 16 15 14 12 10 7 4 4 4	64 54 45 37 31 27 25 22 20 17 15 12 9 6 2 -2 3 5	56 48 40 34 29 26 24 21 19 17 13 10 6 4 2 3 7	55 48 41 35 29 25 23 21 19 18 15 11 7 5 5 7 11 14	50 45 39 33 28 23 19 17 17 17 15 11 5 8 12 16 20 23	41 36 30 24 19 14 12 12 15 17 18 18 15 15 18 22 26 30	31 26 20 14 9 6 5 10 15 20 23 25 27 29 33 39	24 21 17 10 5 1 -3 2 11 20 28 33 36 39 40 42 49 53	17 13 7 2 1 -3 -7 7 20 31 40 47 51 55 58 63 68	11 7 0 2 3 3 10 22 35 46 56 63 69 74 78 85	8 7 7 9 12 18 28 40 53 65 74 82 89 94 99	11 13 17 21 27 35 46 60 73 85 94 102 109 115	24 30 36 44 54 68 81 94 105 115 123	35 45 54 64 76 90 103 116 126 131	72 86 101 113 125
-								5,	50		41								

THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE Z DEFLECTIONS IN MATRIX TDF212 COLUMN 02

0- 0- 0- 0- 0- 0- 0- 0- 0-	0- 0- 0- 0- 0- 0- 0- 0-	0- 0- 0- 0- 0- 0- 0	0- 0- 0- 0- 0 0 0 0 0- 0- 0- 0- 0-	0- 0- 0- 0- 0 0 0 0 0 0 0 0 0- 0- 0- 0-	0- 0- 0- 0- 0 0 0 0 0 0 0 0 0- 0- 0-	0- 0- 0- 0- 0 0 0 0 0 0 0 0 0 0 0- 0- 0-	0- 0- 0- 0 0 0 0 0 0 0 0 0 0- 0- 0-	0- 0- 0- 0 0 0 0 0 0 0 0 0 0 0 0 0 0- 0-	0- 0- 0- 0 0 0 0 0 0 0 0 0 0 0 0 0 0- 0-	0- 0- 0- 0 0 0 0 0 0 0 0 0 0 0 0 0 0- 0-	0- 0- 0- 0 0 0 0 0 0 0 0 0 0 0 0 0 42	0- 0- 0- 0- 0 0 0 0 0 0 0 0 0 0 0- 0- 0-	0- 0- 0- 0- 0 0 0 0 0 0 0 0- 0- 0-	0- 0- 0- 0- 0 0 0 0 0 0 0 0 0- 0- 0-	0- 0- 0- 0- 0- 0- 0- 0- 0- 0- 0- 0- 0-	0- 0- 0- 0- 0- 0- 0- 0- 0- 0- 0- 0-	0- 0- 0- 0- 0- 0- 0- 0- 0- 0-	0- 0- 0- 0- 0- 0- 0- 0- 0-	0- 0- 0- 0-
----------------------------	-------------------------	---------------------	------------------------------------	---	--------------------------------------	--	-------------------------------------	--	--	--	---------------------------------------	--	------------------------------------	--------------------------------------	--	-------------------------------------	-------------------------------	----------------------------	-------------

THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE 2 DEFLECTIONS IN MATRIX TDF212 COLUMN 03

THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE 2 DEFLECTIONS IN MATRIX TDF213 COLUMN 01

-85 -100 -113 -125

-8 -7 -3 4 13 8 1 -4 -8 -5 2 9 16 21 23	16 9 2 -5 -10 -1 7 13 17 20 22	35 25 16 9 4 -1 -0 5 11 15 17 19 19	45 32 23 17 11 7 6 7 10 13 15 16 15 13	54 41 29 24 19 14 13 12 12 13 13 13 12 10 9 8	61 49 39 31 25 22 19 17 16 15 13 12 10 7 5 4 5	65 54 45 37 31 27 24 22 19 17 14 12 9 6 2 -1 3 6	56 48 40 34 29 26 23 21 18 16 13 9 6 4 2 4 8	55 48 41 35 29 25 20 18 17 14 11 6 4 5 8 11 15	50 46 39 33 27 22 19 17 16 16 16 14 10 5 8 12 16 21 24	41 36 30 24 18 14 11 12 14 16 17 17 15 15 18 22 27 31	31 26 20 14 9 5 5 9 14 19 23 24 25 27 30 34 40	25 22 17 10 5 1 -3 1 11 20 27 32 36 39 40 42 50 54	17 13 8 2 1 -3 -7 6 20 31 40 46 51 55 59 63 69	12 8 1 2 3 2 10 22 35 46 56 63 69 74 79 86	8 7 7 9 12 18 28 40 53 65 74 83 89 95 100	11 14 17 21 28 36 47 60 73 85 95 103 110 116	25 30 37 45 55 68 82 95 106 115 123	36 46 55 65 77 91 104 116 127 132	73 87 102 114 126	
--	--------------------------------	-------------------------------------	--	---	--	--	--	--	--	---	--	--	--	--	---	--	-------------------------------------	-----------------------------------	-------------------	--

THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE Z DEFLECTIONS IN MATRIX TDF213 COLUMN 02

THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE Z DEFLECTIONS IN MATRIX TDF213 COLUMN 03

-24 -16 -32 1-6-4 05--21 -18 -22 -27 7-6 -16 -34 -14 -5 -10 α 120 -30 5 2 -13 -12 -11 S -20 2--16 -27 8-1-7--19 7--11 -13 -16 -17 -16 -14 -15 9--25 -16 9--17 -- 21 6 -4 -12 -13 -13 -13 9-6--21 6-72--15 0 [--12 -15 -16 -10 -11 1 -7 -13 -12 -22 -13 -14 -13 -14 -14 -11 -10 -15 -14 -15 -19 -10 -16 5 -16 2--48 -40 -34 -29 -25 -23 -20 -18 -14 -16 -15 1--55 -42 -29 -24 -19 -14 -12 -12 -19 1 8 S C -16 6-9--17 0 -19 -21 ~ -19 -16 7-1 4 -24 -18 -14 -11 -22 -24 3 7--18 2 -21 5 -11 -25 -26 2-01--25 -22 -17 6 -29 6 -31 -27 -23 -14 -31 -35 -25 -37 -20 -39 -33 -33 -36 -30 -36 -45 -41 67--26 94--39 -48 -55 -31 -41 -65 -50 46

-55 -70 -50 -87 -101 -43 -95 -103 -110 -117 -59 -41 -75 -55 -89 -116 -124 -39 69--133-51 -83 -36 -63 -127 97--75 -106 -85 -35 -56 -117 -39 -95 -65 -28 -36 -47 -60 -73 -105 94--27 -31 -82 -53 -19 -35 -91 -6 -20 05-69--10 -78 -22 -28 -55 -10 -65 7 94œ -18 -55 2 \sim -37 -12 m -22 97--3 7 -10 -31 7 -18 -5 2 -25 -2 --15 -10 7 4 8 -17 a T -12 -14 -22 -12 -17 -25

-127

-88 -103 -115

-74

THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE Z DEFLECTIONS IN MATRIX IDF221 COLUMN

6 -1 -6 -9 -7 0 8 14 19 22 14 7 0 -6 -11 -2 6 12 14 19 21	15 8 3 -1 -1 5 10 14 17 18	43 31 21 16 11 7 6 8 11 13 15 15 15 11	52 40 28 23 19 15 13 13 14 14 14 13 11 10 8 6	59 48 38 30 26 22 20 19 17 16 14 12 10 7 4 3 3	63 53 44 37 31 27 25 23 20 18 16 13 10 6 2 -2 2 4	55 47 40 35 30 27 25 22 20 17 14 10 7 4 2 3 6	54 48 41 35 30 26 23 21 20 19 16 12 7 5 5 7 10 13	50 45 39 33 28 23 20 18 18 18 16 12 6 8 12 15 19 21	40 36 30 25 19 15 13 13 15 18 19 18 16 16 18 21 25 29	4 31 26 21 14 10 6 6 11 16 21 24 25 26 27 29 33 38	24 21 17 10 5 2 -2 3 12 21 28 33 37 39 40 41 48 52	16 13 7 2 1 -2 -6 7 21 32 40 47 52 55 58 62 67	10 7 -0 2 3 3 10 23 35 47 56 63 69 73 77 84	7 6 6 9 12 18 28 40 53 65 74 82 88 93 98	10 13 16 21 27 35 46 60 73 84 94 102 108 114	23 29 36 44 53 67 81 94 105 114 122	34 44 53 63 76 89 102 115 125 131	70 85 99 112 124	
--	----------------------------	--	---	--	---	---	---	---	---	--	--	--	---	--	--	-------------------------------------	-----------------------------------	------------------	--

THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE Z DEFLECTIONS IN MATRIX TDF221 COLUMN 02

-2 -2 -1 -1 -1

		- 1	Tendence and the commerce of t	-11	-1 -1	-1 -1 -5	- 0 - 1	-0 -1 -1	-0 -1 -1 -1	-0 -1 -1	-0 -1 -1	-1 -1 -5	-			-1			
*	7	-	-	ī	C I	0	0	С	0	Û	0	C	0-	-	ī	-1	-		
ī	7	-	0-	0 -	C	0	C	C	-	С	C	Ü	0	Ī	0-	-	7	7	
-	7	0	0-	0 0	C	C	-	, -	-	7	_	С	0	0-	0-	-	ī	-	
-	-1	0-	0	-	7	1	7	~	-		-		0	0 0	0	0	ī	-	7
T	-	0 -	0	00	1			_	1		1		-	C	0-	0-	ī	-	-2
	-	0- 0	0	0	_		-	_	-		part			0	0	0-0	ī	1 -1	-5
-	7	0- 0	С	0	-	1	+	-	1		_	1	4	0	0-	0- 0	ī	1 -1	-2
	7	0- 0-	C	0	7	1		-	1		7	1	٦	0	0-	1 -0	-	1 -1	-2
7		-	0-	0-	0	0	+	-	1		-	0	0	C	0-	1 -1	-	1 -1	
-2-	7	-1	C-	- 0-	0	0	0	0	7	0	0	0	O	0-	0-1	-1 -1	-1		
	7	-	7		0-	0-	0	0	0	0	C	0-	0-	7	7	-	-		
		- 2-	7		-	0-	0	0-	0	0-	0	0-	0	· -	7	-			
		'	-1	-	7	-	0	- 0-	01	- 0-	0-		0	7	7	1			
					ī	-	7	0-	0-	0-	0	0- 0-	7	•					
								•	0		48								

THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE Z DEFELCTIONS IN MATRIX IDF 221 COLUMN 03

```
-23
                                                                    91
                                                                                                                              -54
                                                                                        -15
                                                                                                 -20
                                                          <u>ل</u>ا
                                                                                                                                        -63 -69
                                                                                                          -22 -27
                                                8
                                                                    C1
                                                                                                 -16
                                                                                                                    78-
                                       -13
                                                           77-
                                                                                                                                                           -100
                                                                                       α
                                                                                                                              C7-
                             61-
                                                6-
                                                                                                                                                                    -95 -103 -110 -116
                                                                             -2
                                                                                                                                                           -95
                                       771-
                                                                                                 -12
                                                                                                                    -30
                                                                                                                                       -58
                                                           77-
                                                                                                                              04-
                                                                                                          -18
                             61-
                                                -10
                                                                             -4
                                                                                       5
                                                                                                                                                 74-
                                                                   4
                                                                                                                                       -55
                                       -15
                                                                                                                                                           68-
                                                          1-
                                                                                                 00
|
                                                                                                                    -27
                                                                                                                                                                               -123
                                                -12
                                                                                                          -17 -15 -15
                                                                                                                              -39
                             -10
                                                                                                                                                 69-
         -23
                                                                                       1
                                                                   9-
                                                                                                                                                           -83
                                                                             9-
                                                                                                                    -25
                                                                                                                                       -40 -46 -51
                                      -15
                                                         -10
                                                                                                                                                                              -106 -115
                                                                                                -5
                                                -13 -13 -13
                                                                                                                              -36
                                                                                                                                                 -63
         -20
                             -17
                                                                                                                                                                                       -91 -104 -116 -127
                                                                   61
                                                                                       9-
                                                                             -13 -9
                   -12 -17
                                                                                                                    76-
                                      -15
                                                                                                                                                           74-
                                                          217
                                                                                                 -
                             -15
                                                                                                                                                 -56
                                                                                                                                                                    -85
         -16
                                                                   -12
                                                                                                                              -33
                                                                                       -11
                                                                                                -14
                                                                                                                                                          -65
                                                          -13
                                                                                                                    -23
                                                                                                                                                                              -95
                                      -13
-13
                                                                                                                                                                                                 -87 -102 -114 -126
                                                                   -14
                                                                                      -15
                             -10
                                                                                                          -14 -16 -18
                                                                                                                              -27
                                                                                                                                                 -46
                                                                                                                                                                    -73
                                                                                                                                       -20 -31
                                                                                                -16
                                                                                                                    -19
                                                                                                                                                                              182
                                                         -15
                                                                                                                                                          -53
                                      -10
                                                                             -16
                                                                                                                                                                    -36 -47 -60
                                                                                                                                                 -35
                                                                                      -17
                                                -13
                                                                                                                              -20
                            15
                                                                   -17
         2-
                                                                             -18
                                                                                                -16
                                                                                                                    -14
                                                         -16
                                                                                                                                                          04-
                                                                                                                                                                              -68
3
                                      1-
                                                                                      -18
                                                                                                                              -11
                                                -12
                                                                                                                                                 -22
                                                                                                                                                                                       -77
                                                                   61-
         5
                            C
                                                                                                -16
                                                                                                                                       9-
                                                         130
                                                                            -23 -21
                                                                                                                    6-
                                                                                                                                                          -28
                                                                                                                                                                              -54
                   10
                                      9
α
                                                                                                          -11 -12
                                               -13
                                                                                      -20
                                                                                                                                                 -10
                                                                                                                                                                                       -65
                                                                   -22
         Œ
                                                                                                                              1
                                                                                                -17
                                                                                                                                                          -18
                                                         -10
                                                                                                                                                                              -45
                                                                                                                                                                                                 -73
                                                                                                                   5
                                      1-
                   S
\alpha
                                                                                      -25
                                                                   -24
                                                                                                                                                 2
                            6
                                                -14
                                                                                                                              3
                                                                                                                                                                    -21 -27
                                                                                                                                                                                       -54
         4
                                                                            -26
                                                                                                -19
                                                         -25
                                                                                                                                                                             12-
                                                                                                                                       m
                   -2
                                                                                                                   -5
                                                                                                                                                          -12
                                      -)]
                                                                                      -25
                                                                                                          -14
                                               -19
                                                                   -27
                                                                                                                                                6
                                                                                                                                                                                        94-
                            6-
         7
                                                                                                                             7
                                                         -25
                                                                            -29
                                                                                                -22
                                                                                                                                                                             -30
                   8
                                                                                                                   6-
                                                                                                                                                          6-
                                      -17
                                                                                                                                       7
                                               -23
                                                                                      -29
                                                                                                          -18
                                                                                                                                                                    -17
         œ
                            -16
                                                                   -31
                                                                                                                             -5
                                                                                                                                                 2
                                                                            -34
                                                                                                -28
                                                                                                                                                                             -24
                                                                                                                                       -2
                                      -23
                                                         -31
                                                                                                                   -14
                                                                                                                                                          1
                                               -29
                                                                                                                                                                    -14
                                                                                      -35
                                                                                                          -24
                            -24
                                                                                                                             -10
                                                                                                                                                 C
                                                                  -37
                                                                            -40
                                                                                                -33
                                      -35
                                                         -39
                                                                                                                   -20
                                                                                                                                      -7
                                                                                                                                                          1
                            -35
                                                                  -45
                                                                                                          -30
                                                -4]
                                                                                      -41
                                                                                                                             -17
                                                                                                                                                α
1
                                                                            -48
                                                         64-
                                                                                                                   -26
                                                                                                -39
                                                                                                                                       -13
                                                                                                                                                          8
                                                                                      -48
                                                                                                                             -22
                                                                  -54
                                                                                                                                                -12
                                                         09-
                                                                                                94-
                                                                                                                   -31
                                                                                      -55
                                                                  -65
                                                                                                                             -24
                                                                                                          -41
                                                                                                -50
                                                                                                                  49
```

THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE 2 DEFLECTIONS IN MATRIX TDF 222 COLUMN 01

-10 -2 6 -1 -1 5 10 6 8 11 13 12 13 13 14 16 15 22 20 18 15 22 20 18 15 21 19 17 17 13 15 17 17 13 15 17 17 10 22 35 47 28 40 53 54 66 78 81 64 76 90 103					7	0-	-5	6-	9-	-	6 0	15	20	22			4,		}
33 23 15 9 3 -1 -1 5 10 14 17 18 19 18 44 31 22 16 11 7 6 8 11 13 15 15 15 14 12 54 44 38 31 26 22 20 18 15 12 10 7 4 3 4 54 45 37 31 27 25 22 70 18 15 12 10 7 4 3 4 48 41 35 30 25 23 21 19 18 17 17 15 11 5 8 12 16 20 36 47 40 35 30 25 23 21 19 18 15 15 11 5 8 12 16 20 36 30 24 19 15 12 13 15 17 18 18 15 15 18 22 26 30 31 26 20 14 10 6 5 10 15 20 23 25 25 27 29 33 39 21 17 10 5 1 -2 -7 7 20 32 40 47 56 63 69 74 78 85 11 7 0 2 3 3 10 22 35 40 53 65 74 82 88 94 99 11 1 7 0 2 3 3 10 22 35 46 60 73 85 94 102 109 115 24 29 36 44 54 54 67 81 94 15 12 12 35 44 53 64 75 90 103 115 126 131				t a million and a graphy stands a discourse	15	8				2	9	_12	17	20	21				
44 31 27 16 11 7 6 8 11 13 15 15 15 14 12 53 40 28 23 19 15 13 12 13 14 12 10 7 4 3 4 54 45 37 31 27 25 20 18 15 12 9 6 2 -2 2 5 56 47 40 34 29 26 24 22 19 17 14 10 6 4 2 3 7 48 41 35 30 25 23 21 19 18 15 12 7 5 5 7 10 14 45 39 33 28 23 19 18 17 17 15 11 5 8 12 16 20 36 30 24 19 15 12 13 15 17 18 18 15 15 18 22 26 30 31 26 20 14 10 6 5 10 15 20 23 26 25 27 29 33 39 21 17 10 5 1 -2 2 7 7 20 23 240 47 51 55 6 8 94 99 11 7 0 2 3 3 10 22 36 40 53 65 74 82 88 94 99 10 13 16 21 27 35 46 60 73 85 94 102 109 115 24 29 36 44 53 64 76 90 103 115 126 131			33		_	6		-1	-	5	10		17		19	18			
53 40 28 23 19 15 13 12 13 14 13 12 10 8 7 54 45 37 31 27 25 20 18 15 12 9 6 2 -2 2 5 5 56 47 40 34 29 26 24 22 19 17 14 10 6 4 2 3 7 57 41 35 30 25 23 21 19 18 15 12 7 5 5 5 7 10 14 58 39 33 28 23 19 18 17 17 17 15 11 5 11 5 8 12 16 20 36 30 24 19 15 12 13 15 17 18 18 18 15 15 26 30 31 26 20 14 10 6 5 10 15 20 23 25 25 27 29 33 39 21 17 13 7 2 1 -2 2 11 21 28 33 36 39 40 42 49 53 11 7 0 2 3 3 3 10 22 35 47 56 63 69 74 78 85 11 1 7 0 2 3 3 3 10 22 35 47 56 63 69 74 78 85 11 1 3 6 7 9 12 18 28 40 53 65 74 82 88 94 99 11 1 3 6 7 9 12 18 28 40 53 65 74 82 88 94 99 12 13 16 21 27 35 46 60 73 85 94 102 109 115 13 44 53 64 76 90 103 115 126 131	1		77	31	22	16	11	7	9	æ	11			15	15	14	12		
56 44 36 31 26 22 20 18 16 15 14 12 10 7 4 3 4 54 45 37 31 27 22 20 18 15 12 16 2 2 2 2 3 4 2 2 2 2 10 17 14 10 6 4 2 3 7 10 14 45 3 10 6 4 2 3 7 10 14 45 3 3 11 14 10 6 4 2 3 7 10 14 4 3 10 14 10 14 10 11 15 10 15 11 15 11 15 11 15 11 11 11 11 11 11 11 11 11 11 11 11 11 <t< th=""><th></th><th>53</th><th>i</th><th></th><th></th><th>19</th><th>15</th><th>13</th><th></th><th>13</th><th>13</th><th>14</th><th>13</th><th></th><th>10</th><th>8</th><th>7</th><th></th><th></th></t<>		53	i			19	15	13		13	13	14	13		10	8	7		
54 45 37 31 27 25 22 20 18 15 12 4 6 2 -2 2 2 46 47 40 34 29 26 24 22 19 17 14 10 6 4 2 3 7 45 39 33 28 23 19 18 17 17 15 11 5 8 12 16 20 36 30 24 19 18 17 17 18 15 18 17 18 18 17 18 18 17 18 18 18 17 18 18 18 17 18		90	49	38	31	26	22	50	2	16	15	14	12	10	7	4	~	4	
56 47 40 34 29 24 22 19 17 14 10 6 4 2 3 7 3 7 3 7 10 14 48 41 35 30 25 23 21 19 18 15 12 7 5 5 7 10 14 45 39 33 28 23 19 18 17 17 18 18 15 11 5 8 12 16 20 31 26 24 19 18 17 17 18 18 18 15 10 15 20 23 25 25 27 29 33 39 21 17 10 5 1 -2 2 11 21 20 23 40 47 56 63 69 74 78 85 11 1 1 -2 2 11 21 20 23 47 56 <	.+			37	4	27		22	20	18	15	12	6			-2	2	2	
46 41 35 30 25 23 21 19 18 15 12 7 5 5 7 10 14 10 10 11 17 17 15 11 5 8 12 16 20 31 26 30 24 19 15 12 13 15 17 18 18 15 16 20 33 36 25 25 26 30 31 26 20 14 10 6 5 10 15 20 23 25 27 29 33 39 4 21 10 15 20 23 40 40 42 49 53 17 13 7 2 1 -2 -7 7 20 32 47 56 63 69 74 78 85 11 7 6 7 9 12 18 28 40 40 74 78 85		26	47	40	34	59	96	54	22	19	17	14	10	9	4	2	3	7	
45 39 33 28 23 19 18 17 17 16 15 11 5 8 12 16 20 136 30 24 19 15 12 13 15 17 18 18 15 15 18 22 26 30 31 26 20 14 10 6 5 10 15 20 23 25 25 27 29 33 39 14 21 17 10 5 1 -2 2 11 21 28 33 36 39 40 42 49 53 17 13 7 2 1 -2 -7 7 20 32 40 47 51 55 58 62 68 11 7 0 2 3 3 10 22 35 47 56 63 69 74 78 85 10 13 16 21 27 35 46 60 73 85 94 102 109 115 24 29 36 44 54 67 81 94 105 115 122 35 44 53 64 76 90 103 115 126 131	10		41	35				21	19	18	15	12	7			7	10	14	
36 30 24 19 15 12 13 15 17 18 18 15 15 18 22 26 31 26 20 14 10 6 5 10 15 20 23 25 25 27 29 33 39 21 17 10 5 1 -2 2 11 21 28 33 36 39 40 42 49 11 7 0 2 3 3 10 22 35 47 56 63 69 74 78 85 10 13 16 21 27 35 46 60 73 85 94 102 109 115 24 29 36 44 54 67 81 94 105 115 122 35 44 53 64 76 90 103 115 126 131		45	39	33	28	23	19	18	17	17	17	15		5	90	12	16		22
31 26 20 14 10 6 5 10 15 20 23 25 25 27 29 33 39 39 40 42 49 49 40 12 12 28 33 36 39 40 42 49 49 40 12 13 16 21 28 33 36 39 40 42 49 49 40 12 13 16 21 27 35 40 57 81 94 105 115 122 12 18 28 40 57 81 94 105 115 122 12 18 28 40 103 115 126 131	نب ـ	36	-	24	ļ	15	12	13	15	17	18	18	15		18	22	56	30	
21 17 10 5 1 -2 2 11 21 28 33 36 39 40 42 49 17 13 7 2 1 -2 -7 7 20 32 40 47 51 55 58 62 68 11 7 0 2 3 3 10 22 35 47 56 63 69 74 78 85 7 6 7 9 12 18 28 40 53 65 74 82 88 94 99 10 13 16 21 27 35 46 60 73 85 94 102 109 115 24 29 36 44 54 67 81 94 105 115 122 35 44 53 64 76 90 103 115 126 131		31	56	20	14	10	9	Ŋ	10	15	20	23	25	25	77	53	33	39	
7 2 1 -2 -7 7 20 32 40 47 51 55 58 62 7 0 2 3 3 10 22 35 47 56 63 69 74 78 85 6 7 9 12 18 28 40 53 65 74 82 88 94 99 10 13 16 21 27 35 46 60 73 85 94 102 109 115 24 29 36 44 54 67 81 94 105 115 122 35 44 53 64 76 90 103 115 126 131			17	10			-2	2		21	28	33	36			45	64	53	
7 0 2 3 3 10 22 35 47 56 63 69 74 78 6 7 9 12 18 28 40 53 65 74 82 88 94 99 10 13 16 21 27 35 46 60 73 85 94 102 109 115 24 29 36 44 54 67 81 94 105 115 122 35 44 53 64 76 90 103 115 126 131	1	17	13	7	2	7	-2	-7	7	20	32	0.4	47	51	55	58	62	68	
6 7 9 12 18 28 40 53 65 74 82 88 94 10 13 16 21 27 35 46 60 73 85 94 102 109 115 24 29 36 44 54 67 81 94 105 115 122 35 44 53 64 76 90 103 115 126 131 72 86 100 113 125		11	7	0				10	22	35	47	56	63			78	85		
13 16 21 27 35 46 60 73 85 94 102 109 24 29 36 44 54 67 81 94 105 115 122 35 44 53 64 76 90 103 115 126 131 72 86 100 113 125			7	9	7	6	12	18	28	40	53	65	74	82	88	76	66		
29 36 44 54 67 81 94 105 115 12 35 44 53 64 76 90 103 115 126 131 72 86 100 113 125		a - dippy and a result of the result of	10	13	16	21	27	35	94	60	73	85	76		109	115			
44 53 64 76 90 103 115 126 13 72 86 100 113 125					54	59	36	77	54	19	81		105	15	2				
1 211 001 38					35			99	76	06	1	-	126	13					
								72	86		13	75							

THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE Z DEFLECTIONS IN MATRIX TDF 222 COLUMN 02

THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE Z DEFLECTIONS IN MATRIX TDF 222 COLUMN 03

```
-21
                                                                                                           -30 -25 -19 -15 -13 -15 -18 -19 -18 -16 -16 -18 -21 -25 -29
                                                                            9-
                                                                                                 61-
                                                                                                                                           -67
                                                                                                                                 -48
                                           9-
                                                     -3
                                7
                                                                                                                                 14-
                     -17
                                                                                                                                                      -77
                                          -19 -15 -13 -13 -13 -14 -14 -13 -11 -10 -8
                                                                2
                                                                                                                                                                             -114
                                                                                                                                           -58
                                -13
                                                                                                                      -29
                                                                                                                                                                 -93
                                                                           -2
                                                                                                 -12
                                                      7-
                                                                                                                                 140
                                                                                                                                                      -73
                     α -
                                                                                                                                                                            -27 -35 -46 -60 -73 -84 -94 -102 -108
                                                                2-
                                                                                     ر.
ا
                                                                                                                                           -55
                                                                                                                                                                 -8H
                                -15
                                                                                                                      -27
                                                                                                 61
                                                     - 1
                                                                                                                                                                                       -122
                                                                                                                                 -39
                                                                                                                                                      -69
                                                                          -35 -30 -27 -25 -22 -20 -17 -14 -10 -7
                     -18
                                                                                      <u>ا</u> ي
-22
                                                                9-
                                                                                                                                                                                                  -131
                                                                                                                                           -7 -21 -32 -40 -47 -52
                                                                                                                                                                 -82
                                -15
                                                                                                                      -26
                                                                                                                                                                                       -105 -114
                                                                                                 9
                                                     -10
                                                                                                                                 -37
                                                                                                                                                       -63
-19
                     -17
                                                                 -10
                                                                                      1-
                                                                                                                                                                                                  -125
                                                                                                                      -25
                                -15
                                                                                                                                                                  74-
                                                     21-
                                                                                                 -12
                                                                                                                                 -33
                                                                                                                                                      -56
-14
                     -14
                                                                                                                                                                                                  -76 -89 -102 -115
                                                                -13
                                                                                      -12
          -12
                                                                                                                      -24
                                                                                                                                                                 -65
                                                                                                                                                                                       76-
                                -13
                                                     -14
                                                                                                 -16
                                                                                                                                                                                                             -99 -112 -124
                     01-
                                                                                                                                                      24-
                                                                                                                                 -28
                                                                                      -16
                                                                -16
Œ
           9-
                                                     -16
                                                                                                                      -21
                                                                                                                                                                 -53
                                                                                                                                                                                       -8]
                                                                                                 -18
                                -11
                     5
                                                                                      -19
                                                                                                                                                      -35
                                                                -18
                                                                                                                                 -21
C
                                                                                                                                                                                       19-
                                                                                                                                                                 04-
          ~
                                œ
                                                     -17
                                                                                                 ٦ ا
                                                                                                                      -16
                                                                                                                                 -12
                                                                -20
                                                                                                                                                       -23
                                                                                      120
                                                     -19
                                                                                                                                                                 -28
                                                                                                                                                                                       -53
                                                                                                                                                                                                             -70 -85
                                                                                                                      -11
                                                                                                 -13
           9-
                                                                                                                                                                                                  -63
                                                                -23
                                                                                                                                 6
                                                                                                                                           9
                                                                                                                                                       -10
                                                                                      -21
σ
                                                                                                                      9-
                                                                                                 -18
                                                                                                                                                                                       44-
                                                     -20
                                                                                                                                                                 -18
           ¢
                                7-
                                                                -25
                                                                                      -23
                                                                                                                                                       3
                     -3
                                                                                                                                                                                                  -53
                                                                                                                                 2
9
                                                                                                                                                                                       98-
          0-
                                -11
                                                     -25
                                                                                                 -20
                                                                                                                      9-
                                                                                                                                                                 -12
                                                                                                                                            2
                                                                                      -26
                     α
                                                                -27
                                                                                                                                 -2
                                                                                                                                                      -3
                                                                                                                                                                            -21
                                                                                                                                                                                                  77-
                                                     -26
                                                                                                                                                                                       -29
                                -16
                                                                                                -23
                                                                                                                      -10
                                                                                                                                                                 6
                                                                                                                                            7
                                                                                                                                                                            -16
                                           -23
                                                                                      -30
                                                                -31
                                                                                                                                 5
                     -15
                                                                                                                                                       -2
9-
                                                                                                                                                                                       -23
                                                                                                                      -14
                                                     -30
                                                                                                 -28
                                                                                                                                           7
                                                                                                                                                                 9-
                                -21
                     -23
                                           -28
                                                                                     -35
                                                                                                                                                                            -13
                                                                -37
                                                                                                                                 -10
                                                                                                                                                       C
                                                                           04-
                                -31
                                                     -38
                                                                                                -33
                                                                                                                      -21
                                                                                                                                           -7
                                                                                                                                                                 9-
                                           05-
                     -33
                                                                77-
                                                                                      -41
                                                                                                                                 -17
                                                                                                                                                                            -10
                                                                                                                                                      1
                                                                           -47
                                -43
                                                     -48
                                                                                                                      -26
                                                                                                                                           -13
                                                                                                 -39
                                                                                                                                                                 1
                                          -52
                                                                -53
                                                                                      -48
                                                                                                           -40 -36
                                                                                                                                                       -10
                                                                                                                                 -21
                                                     -59
                                                                                                -45
                                                                                                                      -31
                                                                                     -54
                                                                -63
                                                                                                                                 -24
                                                                                                -50
                                                                                                                     52
```

- 1

2

S

10

10

THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE 2 DEFLECTIONS IN MATRIX TDF 223 COLUMN 01

	!	or - Albhorn - marin								24			-							
	Marie I and American					c	7	6	16	21	32	40	55	70						
	-			14	6	Ŋ	7	4	12	16	27	34	50	94	78	101				
			20	15	10	, N	7	2	α	12	22	30	43	29 .	44	95 10	117			
		3	ر د	16 1	1	_	~	4	Ŋ	8	18	27 3	41		75		110	4		
	54	1 23	19		12	6	9	9	4	4	15		39	1 55	69	3 89	103	5 124	133	
	21	21	17	16	13		6		9		14	25	36	. 51	63	83	95	, 116	127	
	16	17	15	15	13	12	11	6	10	10	16	24	32	97	26	75	95	106	117 1	
14	10	13	11	13	13	13	14	12	14	14	17	22	27	39	46	65	73	95	105 1	127
2	2	7	S	10	2	14	16	15	16	15	16	19	19	31	35	53	. 09	82	91 1	115
2		•		7		15		18		16		14	্ব	20		40	4	69		103
-7	-5	6-	1	9	12	17	19	20	18	16	13	σ	10	\$	22	28	47	55	78	88
-7	-7	7-	-1	7	12	19	21	23	19	16	Ξ	4	1	80	10	18	36	46	65	74
	-3	2	4	11	14	21	54	25	22	18	=	Ŋ	-3	-3	~	12	28	37	55	
	2	6	10	17	19	25	26	59	25	22	14	6	1	-	9	10	22	31	94	
	6	17	17	23	24	31	31	34	59	27	18	14	S	2	~	7	18	52	37	
			52	33	59	39	37	04	35	33	54	50	10	80	-	89	15			
			36	94	45	64	45	48 4	41	39	30	56 92	17	4	©	6	12		7	
				7	55	61 4	. 55	56 4	84	46 3	36	31 2	22	7	12					
					19-4	9	65	S	52	50 4	41		25							
										יש		53								

THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE Z DEFLECTIONS IN MATRIX TDF 223 COLUMN 02

		ļ																		
										1										
							~		_		+		2							
						_		7						7						
	i				-		7		1		-		-		-					
				1	1			7		7		1		7		7				
			•		-		-		С		d		-		-		-			
				1				0		0		C				-		~*		
					7		С		C	-	0		C		_		+			
	Manager and the second			1	1	0		0-		0-		0-		0		1		7		
	-				0	_	0		0		0-	_	0-		C		-		-	
				0		1		0		-		0-		0-		C		_	1	
	7		С	C	0=		0-	1	_				0		C		7		-	
						0		7		T		ī		U =		С				
	1		С		0	_	7		ī		1		7		0		0		-	
				0-	!	-1				ī		ī	1	0-		0		7		
_	1	1	С		-0	_	-1		ī		7		T		0-	C	q		7	
			_	0	-	- 1		1		7		١								2
_		1	C	0	0-	_	-		-		7	_	1		0		d	_	1	2
		1		0-		ī	1	1		7		ī		7		C				,
~			C	0-	0	_	โ		1	1	-	_	ī		0-	C	0	_	1	2
			C	1	0	1		1		7		ī		7						
\sim	1	-	_	0	Ĭ	_	7	-	ī	1	ī	_	ī		-	C	a	_		0
			C		0	1	-	ı	_	1		1		1	_		1		1	
		7		C	ĭ	0-	ī	_	ī	-1	7	7	T	0-	1	C	i	_		
	1		_		0	'	0	1	=	-	_		6	1	_				_	1
				C	1	0	0-	0-	ī	_	-	0	0	0	1	C		_		1
	~		_		O		C		O I		0		C	1	C				_	
				-		С	. 1	0-	Ī	0	0-	0	e 1	0		_		_		
			_		7		C	1	C		0		c		_		_			
		1		_	1	_		0	1	0-	1	0		O		-				i
		1	\sim	1	_		C			ì		1	C		_		_			
						1		0		C		C		C		_				
					_		_		C		0		C		_					
						_		1		C		C		_						
							7		С		0		0							
										C										

THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE Z DEFLECTIONS IN MATRIX TDF 223 COLUMN 03

6 5 0 -6 -15	-10 -3 2 6 4 -3 -10 -17 -22 -25 -18 -10 -3 4 9 0 -7 -13 -18 -22 -24	17 -10 -4 0 -0 -6 -11 -15 -18 -20	-47 -34 -24 -17 -12 -8 -6 -7 -10 -13 -15 -16 -16 -15 -15	-56 -42 -30 -24 -19 -14 -12 -12 -13 -13 -13 -12 -11 -10 -10	-62 -50 -39 -31 -25 -21 -18 -16 -15 -14 -13 -11 -9 -7 -5 -6 -7	-66 -55 -45 -37 -31 -26 -23 -20 -18 -16 -13 -11 -8 -5 -2 0 -5 -8	-57 -48 -41 -34 -28 -25 -22 -19 -17 -14 -11 -8 -5 -3 -3 -5 -10	-56 -48 -41 -35 -29 -24 -21 -18 -17 -15 -13 -9 -5 -4 -5 -8 -13 -17	-51 -46 -39 -33 -27 -21 -17 -15 -15 -14 -13 -9 -4 -7 -12 -17 -22 -26	-41 -36 -30 -24 -18 -13 -10 -10 -12 -15 -16 -15 -13 -14 -18 -23 -28 -33	9 -32 -26 -20 -14 -8 -4 -3 -8 -13 -18 -21 -23 -24 -27 -30 -35 -42	-25 -22 -17 -10 -5 -0 4 -0 -9 -19 -26 -32 -35 -38 -41 -43 -51 -57	-18 -14 -8 -2 -0 3 8 -5 -19 -30 -46 -51 -55 -59 -65 -71	-13 -9 -1 -2 -3 -2 -9 -21 -34 -46 -56 -63 -70 -75 -80 -88	-10 -8 -8 -10 -13 -18 -28 -40 -53 -65 -75 -83 -90 -96 -102	-13 -16 -18 -22 -28 -36 -47 -61 -74 -85 -95 -104 -111 -118	-26 -32 -38 -46 -56 -69 -83 -96 -107 -117 -125	-38 -48 -56 -66 -79 -92 -106 -118 -128 -134	-75 -89 -104 -116 -128
--------------	--	-----------------------------------	--	---	--	--	--	--	--	---	---	---	---	---	--	--	--	---	------------------------

THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE 2 DEFLECTIONS IN MATRIX TDF231 COLUMN 01

-12 -11 -4 1 10

-8 -1 7 13 18 21 -12 -3 5 11 16 19 20	-1 5 10 14 16 17 17 16	6 8 11 13 14 15 14 12 10	13 13 14 14 13 11 9 7 5	2 2 8 9 01 81 81 71 61	21 19 16 13 10 6 1 -3 1 3	23 21 18 15 11 7 4 2 2 5	21 20 17 13 8 5 5 7 9 12	19 19 19 17 13 7 8 11 15 18 20	17 19 20 19 16 16 18 21 25 28	1 17 22 25 26 27 29 32 37	13 22 29 34 37 39 40 41 47 51	8 21 32 41 47 52 55 57 61 66	23 36 47 56 63 69 73 76 82	28 40 53 65 74 82 88 92 97	46 59 72 84 93 101 107 113	52 66 80 93 104 113 121	74 88 101 114 124 129	83 98 111 123
-2 -7 -1	8 2 - 2	11 7	19 15 1	5 23 21	28 26 24	27 25	26 24 22	21 19	16 13 14	7 7	2 -1 3	-2 -6	3 3 1	12 18	20 26 35	35 43	42 51 62	69
13 6	22 14	30 21 16	27 23	38 30 26	37 31	40 35 30	35 30	33 28 24	25 19	21 15 10	10 6	7 2 1	-1 2	5 6 8	12 15	22 28	33	
	31	45	51 39	58 47	62 53 44	55 47	54 47 41	49 45 39	40 36 30	31 56	24 21 16	16 12	9 01	9	8			

THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE Z DEFLECTIONS IN MATRIX TDF231 COLUMN 02

03
Ā
IN MATRIX IDF231 COLUMN 03
31 0
DF2
X
ATRI
IN M
EFLECTIONS
LEC
DEF
Z =
THE
N INCH OF T
INC
AN
OF
THS
LION
MIL
IN MILLIONTHS
ITY
ANT
D) 0
POSITION AND
LON
OSII
E
OXIMATE
ROX]
APP
THE A

-3 -3 -3 -5	-3 -3 -2 -2 -2 -2 -5 -2 -5	-3 -2 -2 -1 -1 -1 -1 -1 -2	-3 -2 -2 -1 -1 -1 -0 -0 -1 -1 -1 -2 -2	-3 -2 -2 -1 -0 -0 0 0 0 0 -0 -1 -1 -2 -3	-2 -2 -1 -1 -0 0 1 1 1 1 0 0 -0 -1 -2 -3	-2 -1 -1 -0 0 1 1 1 1 1 1 0 -0 -1 -2 -3	-2 -1 -1 -0 0 1 1 2 2 2 2 1 1 0 -0 -1 -2 -3	-1 -1 -0 0 1 1 2 2 2 2 2 1 1 0 -1 -1 -2	-1 -0 -0 -0 -1 1 2 2 2 2 2 2 1 0 -1 -2 -3	-1 -0 -0 0 1 1 2 2 2 2 2 2 2 1 1 -0 -1 -2 -3	-0 -0 -0 0 1 1 2 2 2 2 2 2 1 0 -1 -2 -3	2- 1- 1- 0 1 1 2 2 2 2 2 1 1 0 0 0- 0- 57	-1 -1 -0 -0 0 1 1 2 2 2 1 1 1 0 -1 -1 -2 -3	-1 -1 -1 -0 0 1 1 1 1 1 1 0 -0 -1 -2 -3	-2 -1 -1 -0 0 0 1 1 1 1 0 -0 -1 -1 -2 -3	-2 -2 -1 -1 -0 -0 -0 -0 -0 -1 -1 -2 -3	-2 -2 -2 -1 -1 -1 -1 -1 -1 -1 -1 -2 -3	-2 -2 -2 -1 -1 -1 -1 -2 -2	-3 -3 -2 -2 -2 -2 -2 -2 -2	-3 -3 -3 -3	
-------------	----------------------------	----------------------------	--	--	--	---	---	---	---	--	---	---	---	---	--	--	--	----------------------------	----------------------------	-------------	--

-24 -16 -55 Ŋ 6 -21 -12 -50 -86 9 7--5 -16 -13 -101 -18 -22 0 æ -43 -20 -95 -103 -110 -116 -15 S -2 -30 -12 -20 5 -74 2--41 7 -23 -16 -27 -55 __ 8 -89 7--124 -54 -41 -29 -24 -19 -14 -12 -12 -12 -13 -13 -13 -12 -19 69-1 -24 -41 -36 -30 -24 -18 -14 -11 -11 -14 -16 -17 -17 -14 -15 -39 -133 9--16 -25 -116 61 -51 -83 9 5 -17 -63 -127 6-9--36 -21 -13 -17 5 97-21-124 -75 1106 6-0 [-15 -14 -17 -22 -28 -36 -47 -60 -73 -85 -56 -12 -35 -117 - 1 -13 -12 -22 -39 -14 -13 -65 -95 -88 -102 -115 -127 -14 94--11 -14 -104 6 -27 -6 -20 -31 -48 -40 -34 -29 -25 -23 -20 -18 -16 7 -14 -19 -10 -16 -82 -53 -17 -5 -35 2--17 -20 -91 -14 -16 -16 -68 1-04--19 -18 -10 -78 -22 ហ C -17 -16 0 -28 -55 9-9 -20 -21 -10 7 -65 7 -19 -16 -45 L. -18 1 7--22 -24 2 7--55 4 3 -21 -18 18--12 5 2 3 --26 -25 -10 6 94-7 T -25 -22 -31 -17 6 0 7 -31 66-9[-8 5 2 -37 -23 -27 -25 -2 -31 -14 -7 -35 -25 -37 -10 1 1 -20 -39 -33 1--35 -45 -17 00 67-92--39 -17 -14 0 -12 19--65 -55 -50 58

THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE Z DEFLECTIONS IN MATRIX TDF 232 COLUMN

18 13 11 8 7 4 3 3 -2 2 3 7 10 14 12 15 19 22 26 30 29 33 38 41 48 53 58 62 67 78 84 144 84	
18 13 11 8 7 4 3 7 7 10 12 15 22 26 29 33 41 48 41 48 93 99 104	
18 13 8 4 4 4 12 22 22 29 29 29 78 78 144 144 144	
21 18 10 7 7 7 40 18 88 88 88 109	
22 22 22 11 18 18 18 18 18 59 59 59 59 59 59 59 59 59 59 59 59 59	
19 19 17 17 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	1
2 2 2 2 15 15 15 16 16 16 17 18 18 18 18 18 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19	. 4
3 8 6 6 10 11 11 11 11 12 13 14 17 17 18 19 17 18 19 19 19 19 10 10 10 10 10 10 10 10 10 10	2 12
-4 0 8 13 17 13 17 18 18 18 18 18 18 18 18 18 18	00 11
9 -7 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1	_
23 33 35 23 13 1-1 -9 -9 23 23 35 35 25 25 25 25 25 25 25 25 25 25 25 25 25	
-10 -6 1 -6 3 11 7 11 7 15 25 26 24 27 23 6 6 6 6 6 6 6 6 6 73 74 74 75 75 75 75 75 75 75 75 75 75	7
26 27 28 28 28 28 29 29 1 2	
6 14 15 22 1 22 1 330 2 330 2 34 3 3	
23 28 28 28 37 40 37 35 33 25 25 25 25 26 6	
33 34 46 47 47 41 41 41 41 41 41 41 41 41 41 41 41 41	
52 59 53 56 48 45 31 31 31 31 11	
50 63 65 64 61	
59	The state of the s

THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE Z DEFLECTIONS IN MATRIX TDF 232 COLUMN 02

7 ī 7 _ 7 1 ī ī C 7 0 7 -1 0 C C C C C C C 0 C 0 Ç ī 0 C C 1 0 ī C 0 C 0 a C 0 0 0-C C C ٦ CI C C 0 1 C 0-C C C 7 0-0 0 a 0 7 C C C 0- 0-C ī 0 C d 0 _ C C C C C ī C ī C C C 7 7 C 0 _ C 0-7 0 C 7 0--C C d C 7 1 0 0 0 7 0 7 7 C 0 7 0-C d 0 0 Ö O T 0-7 T C 0 C 7 C 0 7 d C 0-7 0-0 C ī d C 9 0 0 7 0 0 0 0 7 0 7 0 0 0 0 0 0-7 0-0 0-7 60

1

Z DEFLECTIONS IN MATRIX TDF 232 COLUMN 03 APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE THE

61

0 THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE Z DEFLECTIONS IN MATRIX TDF233 COLUMN

Z DEFLECTIONS IN MATRIX TDF233 COLUMN THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE

116 128

							4									1			
							1		3				1						
			!		~	(c)	2	m	~	3	^	, w	8						
				٣		~	1	ζ.		^		٨		~					
į			۳.		α.		1				-		~		~				
		~	2	2	_	-	-		0	-			-	~	~	3			
		^		7		c		c		0		-		_		2			
2	~		-		0		0-		7		0-		0		-		\sim		
	-		-	0	0-	0-	7	-	-		7	0-			-		~	2	
~		_	C	0-	_	7		~		-2		7		Ö		-		~	
~		_		O	ī	-	1	۲ م	- 2	2	ī	1		0-	C	1		2	
	-		0-		-	1	-2	1	-2	1	~	•	7	ı	0		-		3
~		C	0-	7	-	-2	2	-2	-2	-2	2-	-	-	1	0	7	_	2	3
2	a series of space	C	•	-	1	-5	•	~	•	-2	1	-2	•	~		-		~	
			C	Ì	ī		-2		-2	•	~		7	•	0-		_		2
~	-		0	7	<u>-</u>	-2	2	-2	-5	-2	-5	-2	-	ī	c		~	2	5
~		-		-		2-	•	<u></u>		2-		2-		7		4		~	
~	2	-	0		ī		-2	0	-2		-2		7	6	C		~	2	3
	2		0	0-	-	:	7	- 2	-2	-2	7	ī	-	0	0		2		
3	2	_		C	_	7		7		7	.	7	c	0		-	~	m	
8		~			0 -	0-	7	-	1	7	- 1	0-	0	С		2		3	
	3		2		С		0-		7	1	0-		0		-		~		
		~	2	7	_	0	0	0	0-	0	0-	0	-	_	2	2			
		m		2		1		0		0		0		-		~			
			3		-				0		С			•	2				
				2	~	-	-	0	0	0	0		-	~					
						~		-		0		-							
									-		63								

THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE Z DEFLECTIONS IN MATRIX TDF 233 COLUMN 03

-26 -23 -18 -11 7- $\boldsymbol{\sim}$ S 7-25 -22 -19 -14 **3**0 C α 3 7--11 -19

-22 -21 -20 -18 -15 -]] Ý 0-0 -5 α [12--3A

-16 -17 -17 -16 -15 -13 -10 1-9α -12 - 18 -24 -35 67-12 -11 -12 -12 -13 -13 -12 -12 -11 T -14 61-70--31 -57

α. 1 9-1-6---12 -13 138

-10 9-0 6 -5 8 -10 -13 -15 -14 -17 -16 -20 -23 -2] -26 -25 -31 -31 -38 04--46 -51 -56 -63 19-

-11 9--3 -3 -5 -1 -]] 71--16 α -21 76--28 -34 -41 -4B

-18 -13 6-رن ا £_3 7-61 -15 -14 -16 g . -20 -23 201 -34 -41 -48 156

-18 -12 1--3 α I -12 -13 -14 71--] 4 -17 -21 -27 -33 U 7 -97-

-27

-35

-58

-52

77-

-41

-38

-35

-31

-25

2

6

S

C

ر. ا

-10

-17

-22

-25

64

-73

99-

09-

-89

-119

-112

-104

-96

-86

74-

-6]

-4B

-37

-29

-23

5

-16

-43

-36

[7--51

-23 -30 Œ 7 t ī -13 S ī -15 7 -6-61 -12 -17 -24

-27 -24 -22 -21 -17 -15 1 2 3 ۵. آ 71--20 126 -32

-56 -51 47--39 -30 -18 5 5 4 0 2 Y 7 [-

- B -76 -70 -63 -56 97--34 -21 0 2 <u>ر</u> (* | 7 O -13 -97 -91 -83 -75 -65 -53 -40 12R - 3 -13 -10 0 O I -

-107 -117 96-- B3 -70 126 147 6×--33

-135 -129 -119 -106-93 -80 -68 -57 67-04-

-130-118 -105 -61 Z DEFLECTIONS IN MATRIX TDF 241 COLUMN 01 THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE

3 -4 -8 -12 -9 -1 6 13 17 20	12 5 -1 -7 -12 5 11 15 18 19	30 21 13 7 2 -2 -1 4 10 14 16 17 16 15	41 29 20 15 11 7 6 8 11 13 14 15 14 12 9	50 38 27 22 19 15 14 13 14 14 14 14 19 11 9 6 4	57 45 37 30 26 23 22 20 18 17 15 13 10 6 3 1 0	62 52 44 37 31 28 27 24 22 20 17 14 10 6 1 -4 -0 1	55 47 46 35 30 28 26 24 22 19 16 12 7 4 1 1 4	54 47 41 35 30 27 25 23 22 21 18 14 9 6 5 6 8 11	49 45 39 34 28 24 21 20 20 20 20 18 14 7 9 11 14 17 19	40 35 30 25 20 16 14 15 17 20 21 20 17 16 18 21 24 27	G 31 26 21 15 11 7 8 12 18 23 26 27 27 29 31 36	24 21 16 10 6 3 -1 4 14 23 30 35 37 39 40 40 46 49	15 12 7 2 1 -1 -5 9 22 33 41 47 52 54 57 60 64	9 6 -1 1 3 3 11 23 36 47 56 63 68 72 76 81	5 4 5 8 12 18 28 40 53 64 74 81 87 91 96	7 11 14 19 26 34 45 59 72 84 93 100 107 111	אב 112 ובטן 126 אפ 52 אב 75 וכ	32 41 5n 61 73 87 100 113 123 128
------------------------------	------------------------------	--	--	---	--	--	---	--	--	---	---	--	--	--	--	---	--------------------------------	-----------------------------------

THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE Z DEFLECTIONS IN MATRIX TDF241 COLUMN 02

97 109 121

R2

7- 7- 7- 7- 7-	-4 -4 -3 -3 -3 -3 -3 -3 -3		-4 -3 -3 -2 -1 -1 -1 -1 -1 -1 -2 -3 -4	-4 -3 -2 -1 -1 -0 0 0 0 0 -0 -1 -2 -3 -4	-4 -3 -2 -1 -0 1 1 1 1 1 0 -1 -1 -3 -4	-3 -2 -1 -1 0 1 2 2 2 1 1 0 -1 -2 -3 -4	-2 -2 -1 -0 0 1 2 2 3 2 2 2 1 0 -1 -2 -3 -4	-1 -1 -0 0 1 2 3 3 3 3 3 2 1 0 -1 -2 -3	-1 -1 -0 0 1 2 2 3 3 3 3 3 2 1 0 -1 -3 -4	-1 -1 -0 0 1 2 2 3 3 3 3 3 3 2 1 -0 -2 -4	-1 -0 1 2 5 8 8 8 3 3 1 0 0-1-4	91 -0 0 1 1 2 3 3 3 3 3 2 1 0 -1 -2 -3	-1 -1 -0 -0 1 1 2 2 2 2 2 2 1 0 -1 -2 -3 -4	-2 -1 -1 -0 0 1 2 2 2 1 1 0 -1 -2 -3 -4	-2 -2 -1 -1 0 1 1 1 1 0 -0 -1 -2 -3 -4	-3 -2 -2 -1 -1 -0 -0 0 -0 -1 -1 -2 -3 -4	-3 -3 -2 -2 -1 -1 -1 -1 -1 -2 -2 -3 -4	-3 -3 -2 -2 -2 -2 -3	-4 -4 -3 -3 -3 -3 -3 -3 -3	4- 4- 4- 5- 5-
----------------	----------------------------	--	--	--	--	---	---	---	---	---	---------------------------------	--	---	---	--	--	--	----------------------	----------------------------	----------------

POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE Z DEFLECTIONS IN MATRIX TDF241 COLUMN 03

-74 -88 -103 -115 -127

2 DEFLECTIONS IN MATRIX TDF 242 COLUMN THE OF INCH Ā OF APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS

THE

 \sim

C

-

S

THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE Z DEFLECTIONS IN MATRIX TDF 242 COLUMN 03

7

T

-

7

ī

7

7

1

7

7

7

-

-

7

7

7

ī

7

-

-2

2

7

-2

-2

-2

-2

61-67-1 --64 -17 C -36 x 1 -α 77-760 71-46-5 T -21 07- 07--1111 7 C 7 7 -76 -57 56--15 7 7 10--18 -72 -93 -100 -107 0 ئ ا 1 7 -54 18-12-- 14 -19 7 71 1 -120 -17 -39 -17 -16 -168 -20 9 9 -128 -27 2 -52 -15 0 1-180 -103 -112 1-12--13 -63 0 [-1 7 -123 -41 -47 12--13 5 -14 -22 -19 -16 -12 71-74--27 -22 -19 -15 -14 -13 -14 -14 -72 -84 -17 -14 -17 -20 -21 -20 -35 1 1 1 -13 -113 7 -7 --15 -26 -13 138 -26--64 c. | -30 ۳ **۱ -**147 -R7 -100 1 -20 -22 -33 -23 5 -17 -53 -180 02- 22--45 -59 -23 -36 7--21 -20 - 18 α[α; 1 4 04--66 -14 -22 -23 -73 σ -30 -28 -26 -24 -20 6 -20 -12 12 9 -28 -52 -26 -34 -23 -27 -24 -20 -16 -14 -15 2 7---61 Λ: -22 -20 α: 1 2 27--7 -18 -25 6-2œ -50 _ -23 -21 -12 -34 1 -19 -27 -28 1-6-9 4 -4] -26 -24 -5 -15 -11 0 -27 1 -30 6 -13 -31 71-9--35 7 -35 -30 -28 -20 -15 -2 5 -21 -35 -30 -25 -37 -10 -21 -47 -40 -37 62--34 1 [2-7--30 77--4] -16 9--46 -39 -26 -12 -41 5 -40 -35 -52 0 -21 -57 -45 -62 64-70

0 THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE 2 DEFLECTIONS IN MATRIX TDF 243 COLUMN

-109 -121

16-

-82

-67

11 4 -1 -5 -3 4 11 18 23 26	19 11 4 -3 -8 0 8 14 19 22 25	38 27 18 11 5 0 0 6 11 15 18 .20 21 22	35 24 18 12 8 6 7 10 13 15 16 17 17 16	13 31 24 19 14 12 11 12 13 13 13 12 12 11 12	40 31 25 21 18 16 14 13 12 11 9 7 6 7 8	16 38 31 26 23 20 17 15 13 10 8 5 3 n 6 10	41 34 28 24 21 18 16 14 11 7 5 3 3 6 11	+1 34 28 23 20 18 16 14 12 9 4 3 5 9 13 18	33 27 21 17 14 14 14 13 12 8 3 7 12 18 23 27	30 24 17 12 9 9 11 14 15 15 13 14 18 23 29 35	20 14 8 3 2 7 12 17 21 52 54 57 30 34 43	17 10 5 -0 -5 -1 9 18 25 31 35 38 41 44 52 58	8 2 0 -4 -9 5 18 30 39 46 51 56 60 66 73	9 2 3 3 2 9 21 34 46 56 63 70 76 91 R9	9 9 10 13 18 28 40 53 65 75 83 91 97 103	14 16 19 23 29 37 48 61 74 86 96 104 112 119	27 33 39 47 56 70 83 96 107 117 12h	40 49 57 68 80 93 106 119 129 135	77 91 105 118 130
11			54		31		34		33 27					~	6	16		40	
		` '	67	57 (63 51	67 56	57 48	26 48	51 46 40	41 36	92 28	25 25	18 14	13	11				

α

7-

THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE Z DEFLECTIONS IN MATRIX TDF 243 COLUMN 02

										4										
						4	4	3	4	3	4	٣	4	7						
				4	7	3	6	2	3	2	4	~	3	3	4	4				
			4	3	6	~	2		_	0	+	_	2	2	m	8	4			
		3	m	2	-	1	-	0	C	1	0-	c	-		~	2	-	ϵ	**	
	6	2	~	1	-		0	0-	- 1	2 -1	7	1 -0	0-	0	-	_	2	~	6	
	3	2	_	c	0-	0-	7	2 -1	-2	3 -2	-2	-1	-1	0-	C	1	2	Λ.	m	
	3	2	_		-	<u> </u>	-2	6	6	3 -3	-3	۲ - ۲	-2		0	0	4	~	6	
4	3		_	0- (-1		C' I	-3	۳	3 -3	-3	-3	5-		ī	0	-	~	6	4
4	6	2	_	0-	-	- 2	2-	-3	()	3 -3	-3	-3	-2	2	ī		-		3	4
4	3	2	_	0-	-	ر ر	-3	-3	۳,	-3	-3	-3	-2	2	7	0-	_	Λ.	6	4
4	6	2	_	0	-	(-2	-3	6.	-3	-3	<u>,</u>	-2	-2	7	0	-	~	3	5
4	ر س	2	_	0	-	-2	2-	-3	~	-3	-2	13	-2	-2	ī	0	-	~	4	7
	4	3	~		0	-	7	-2	-2	-2	-2	-2	7	-	0	-	2	3	4	
	4	3	٣			0	0-	1	ī	-2	-	ī	7	0-	_	1	2	3	4	
		4	m	2	2	1	0	0-	0 -	-1	7	ī	0	0		2	3	3		
			4	3	3	_	-	0	C	0-	0-	0	C		~	2	3			
				7	7	~	2		_	0	. 0	C	-	-	~	3				
						(*)	2		_	1	1	-	1	2		to a final stress of the broadests				
										1		72				the second section with the second section of the second section is section to the second section of the second section is section to the second section in the second section is section to the second section in the second section is section in the second section in the section is section in the section in the section in the section is section in the section in the section is section in the section in the section in the section is section in the section				
	1				+		1						İ			Ì	1		1	

THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE Z DEFLECTIONS IN MATRIX TDF243 COLUMN 03

- 15 -19 -13 -13 -19 -18 -13 -17 -13 -15 -45 -32 -25 -19 -13 -11 -10 -11 -12 -12 -13 -10 -7 9-8 -12 -19 -26 -37

-13 -12 8-61 -2 1-6 8-SI 6 1-01-6 -111 -11 -12 -13 -13 -15 -14 -18 -16 -21 -20 -25 -25 -30 -32 -41 -47 -52 -69 -57 -65

7--3 7-9 6 --14 -16 -19 -22 -27 -34 -41 -59 -49

-21 -15 0 | -ر ا 2--3 9-6 -12 -13 -15 -18 -22 -27 -34 -4] 64--57

-26 -19 -13 9-7 9 6--1 -11 --12 -15 -20 -26 -33 -40 -47

-30

-38 -18 -11 -13 -12 -12 -9 -11 -7 -7 -42 -36 -30 -24 -17 -11

-55 -37 94--31 -45 -27 -38 -23 -34 -2] -30 -19 -24 -15 -16 -10 -7 7m 0 9 -2 1-7--13 -10 -20 -18 -27 -23 -32

73

-62

26-

-83

-77

-71

-63

-45

-56 -51 -45 -55 -37 -45 -28 -17 2 α 10 S **6** 0 6--3 6--10 -15

-33

-20

7

3

-15

-107 66--92 -84 -75 -65 -53 04--28 -18 -13 -11 -10 -11

-97 -106 -114 -122 -87 -75 -62 -48 -38 -30 -24 -27 -19

-138-132 -121 -109 96--82 -70 19--52 -43

-128

-98 -109 -119

-85

-72

-58

64-

-41

-35

-95 -109 -121 -133

THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE Z DEPLECTIONS IN MATRIX TDF311 COLUMN

-17 -16 -11

THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE Z DEFLECTIONS IN MATRIX TDF311 COLUMN 02

-8 -8 -7 -7	-8 -1 -6 -6 -5 -5 -5 -5 -5 -5 -5	-7 -6 -5 -4 -4 -3 -3 -3 -3 -4 -5	-8 -6 -5 -3 -3 -2 -2 -1 -1 -2 -2 -3 -5 -6	-7 -6 -4 -2 -1 -0 0 0 0 0 -1 -2 -3 -5 -7	-6 -5 -3 -2 -0 1 2 2 2 2 1 0 -1 -3 -5 -7	-6 -4 -3 -1 0 2 3 4 4 3 3 2 1 -1 -3 -5 -7	-5 -3 -2 -1 1 2 4 4 5 4 4 3 2 1 -1 -3 -6 -8	-3 -1 -0 1 2 4 5 5 5 5 4 3 1 -2 -4 -6	-2 -1 -0 1 2 3 4 5 6 6 5 5 4 2 0 -2 -5 -7	-1 -0 0 2 3 4 5 6 6 6 5 5 4 2 -1 -3 -6 -8	-1 -1 -0 1 2 3 5 5 6 6 5 5 4 2 0 -2 -5 -7	-1 -0 0 1 2 4 5 5 5 5 4 2 1 -2 -4 -6	-2 -1 -1 -0 1 2 4 4 4 4 4 3 2 1 -1 -4 -6 -8	-3 -2 -2 -1 1 2 3 3 3 2 2 0 -1 -3 -5 -8	-4 -3 -3 -1 0 1 2 2 2 1 1 -0 -1 -3 -5 -7	-5 -4 -3 -2 -1 -0 -0 0 -0 -1 -2 -3 -5 -7	-6 -5 -4 -3 -3 -2 -2 -2 -2 -3 -4 -5 -7	-6 -5 -5 -4 -4 -4 -4 -6 -6	9- 9- 5- 5- 9- 1- 1- 1-	
					9-		6- 8-			_		7			7-					

THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE Z DEFLECTIONS IN MATRIX TDF311 COLUMN 03

-17 -3 4 9 2 -3 -10

-22 α -13 1 C 0 3 -3 -18

-18 -15 7 9-9 C 7-7 -26 -17

91--16 -15 -13 -10 1-9 8 -12 -18 -34

--12 -13 -13 -13 -12 -11 -12 -14 -19 -24 -30

0 5 16 C -5 2 1--5 6-0 --11 -13 -13 -14 -16 -15 -18 -16 -20 -18 -23 -21 -26 -25 -31 -31 -37 -50 -40 -45 -55

0 -~ ر ا α -11 71--17 -19 -25 -24 -28 -34 -4] -48 -57

-13 138 -5 7-5 6--17 -15 -13 -29 -24 -21 -18 -48 -41 -35

126 -22 -12 -7 7-0 -13 -14 -15 -15 -15 -17 -21 -27 -33 -39 -46 -51

-33 -42 コハ -35 -27 -30 3 -14 -13 -15 -16 -18 -15 -13 -12 α -10 -3 -10 7--13 00 -18 -24 -20 -30 -26 -36 -41

76

-57 -51 -43 -41 -38 -21 -23 -24 -35 -31 -26 -19 61 0 4 0 15 7 --10 -17 -25 -25

-65 -59 -55 -51 97--39 -30 61-5 ∞ \mathfrak{C} 0-2-4

-70 -75 -56 -63 -21 -34 -46 6 -2 -3 -2 7

-102

06-

-83

-75

-65

-53

04-

-28

-18

-13

-10

8

8

-10

-118 -111 -104 -95 186 -74 -61 14--36 -28 -25 -18 -16

-96 -107 -117 -125 -83 69--56 94--38 -32

-129

-118

-106

26-

-79

-67

-56

-48

-39

-129 -104 -117 06-94APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE Z DEFLECTIONS IN MATRIX TDF312 COLUMN 01

-12 -11 -6 1 10	4 -2 -7 -11 -8 -1 7 13 18 21	13 6 -1 -7 -12 -3 5 11 16 19 20	21 14 8 2 -2 -1 5 10 14 16 17 17 16	30 21 16 11 7 6 8 11 13 14 15 14 12 10	27 23 19 15 13 13 14 14 13 11 9 7 5	37 30 26 23 21 19 18 16 15 13 10 6 3 2 1	37 31 28 26 24 21 19 16 13 10 6 1 -3 1 2	40 35 30 27 25 23 21 18 15 11 7 4 2 2 5 5	35 30 26 24 23 21 20 17 13 8 6 5 7 9 12	33 28 24 21 19 19 19 17 13 7 9 11 15 18 20	25 19 16 14 14 17 19 20 19 17 16 18 21 24 28	21 15 10 7 7 12 17 22 25 26 26 27 29 32 37	10 6 2 -1 4 13 22 29 34 37 39 40 41 47 51	7 2 1 -2 -6 8 22 32 41 47 52 55 57 61 65	-1 2 3 3 11 23 36 47 56 63 69 73 76 82	5 5 8 12 18 28 40 53 65 74 82 87 92 97	12 15 20 26 35 46 59 72 94 93 101 107 113	22 28 35 43 52 6K 80 93 104 113 121	33 42 51 62 74 88 101 114 124 129
	۲ م	ç	-			56	28	30	30 26	54	19	10				œ	15 20	28	75
			31. 21	42 30	51 39 27	58 47 37	62 53 44 37	55 47 40	54 47 4] 35	49 45 39 33	40 36 30 25	31 26 21	24 21 16 10	7 21 91	10 6 -1	5 5	8 12		

THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AM INCH OF THE Z DEFLECTIONS IN MATRIX TDF312 COLUMN 02

THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE Z DEFLECTIONS IN MATRIX TDF312 COLUMN 03

```
-15
                                                                               2
                                                                                                    -16 -11 -7 -5 -5 -6 -8
                                                                                                                                                  146
                                                                                                                -14
                                                                                                                                      -24 -28 -30 -33
                                                                   3
                                                                                                                                                             -61
                                                                                          7
                                                                                                                           22- 02-
                                                                              3
                                                                                                                                                                        -73 -78
                                                         7
                                                                                                                -13
                                                                                                                                                                                   £6-
                                             2
                                                                   -
                                                                                          C
                                                         7-
                                                                              S
                                 -4 -9 -13 -15 -14 -12
                                                                                                                                                                                              -108
                                                                   -1
                                                                                                                                                            -55
                                                                                                                -11
                                            6
                                                                                          7
                                                                                                                          -17 -18
                                                                                                                                                 -39
                                                                                                                                                                        -71
                                                        α
1
                                                                               ī
                                                                                                                                                                                              -104
                                                                                                                6-
                                                                                                                                                                                   -86
                                                                                                                                                            -54
                                                                   -5
                                             -12
                      -17
                                                                                          7-
                                                                                                                                                                                                         -78 -91 -101 -110 -117
                                                                                                                                                                        -68
                                                                                                                                                 -39
                                                                                                                                                                                              66-
                                                        -11
                                                                               9-
           -17
                                                                                                                                                                                                                     -126
                                                                                                                                      -9 -10 -15 -20 -25 -28 -28 -28
                                             -14
                                                                                                               6-
                                                                                                                                                            -52
                      -16
                                                                  -29 -26 -24 -23 -21 -20 -18 -16 -14 -10
                                                                                         0
                                                                                                                                                                                   -80
                                                                                                                                                                       -57 -63
                                                        -13
                                                                                                                          61- 22-
                                                                                                                                                                                              26-
                                                                              -11
                                                                                                                                                  -38
                                                                                                                                                                                                                     -121
                                                                                                               -16
                                                                                                                                                             -48
                                                                                                                                                                                   -73
                                             -14
                                                                                         -13
                      71-
                                                                                                                                                                                              -83
                                                        -15
                                                                              -15
                                                                                                                                                  -36
                                                                                                                                                                                                                     -98 -110
                                                                                                                -22 -20
                                                                                                                                                                                   -64
                                                                                                                                                            -34 -45
                                            -13
                                                                                         -18
                      5
9
                                                                                                    -47 -41 -36 -31 -28 -27 -26 -25 -23 -20
                                                                                                                          -22 -23
                                                                              -19
                                                       -15 -15
                                                                                                                                                                        -12 -24 -37 -48
                                                                                                                                                 -31
                                                                                                                                                                                              -58 -71
                                                                                                                                                                                   -53
                                                                                         -21
                                            -11
3
                                                                                                                                                  -25
                                                                              -22
                                                                                                                                                                                                                     -85
           4
                                                                                                               -23
                                                                                                                                                                                   07-
                                                                                         -24
                                                                                                                                                             -24
                                                                                                                                                                                                         -50 -64
                                            α
I
11
                      ک
                                                                                                                          -17 -20
                                                        -14
                                                                              -24
                                                                                                                                                 -6 - 16
                                                                                                                                                                                              77-
                                 ~
                                                                                                                                                                                                                     -71
                                                                                         -26
                                                                                                                -22
                                                                                                                                                                                   -28
                                                                                                                                                             -10
9[
                                            9-
                      14
                                                       -15
                                                                              -26
                                                                                                                                                                                                                     -58
                                 3
                                                                                                                                                                                              -33
          14
17.
                                                                                                                -22
                                                                                         128
                                                                                                                                                             4
                                                                                                                                                                                   -18
                                                                                                                                                                                                          -32 -40
                                            1-
                      0
                                                       91- 61-
                                                                              -28
                                                                                                                          -16
                                                                                                                                                                        7-
                                                                                                                                                                                              -25
                                                                                                                                                                                                                     L47
          11
                                 1
                                                                                                                                                  7
                                                                                                               -23
                                                                                         08-
                                            -10
                                                                                                                                                                                   -11
                                                                                                                                                             _
                                                                              -29
                                 9-
                                                                                                                          -18
                                                                                                                                                 7-
                                                                                                                                                                        <u>۳</u>
                                                                                                                                                                                              -18
                                                                                                                                                                                                                     -38
          1
                                                                                                               -25
                                            -14
                                                                                         -35
                                                                                                                                      -15 -12
                                                                                                                                                                                   1-
                      2
                                                                                                                                                             7
                                                                                                                          -21
                                                                              -35
           C
                                 -18 -11
                                                                                                                                                  9-
                                                                                                                                                                        -13
                                                                                                               -29
                                                                                         -35
                      6
                                            -18
                                                                                                                                                                                   7-
                                                                                                                                                             7
                                                                                                                          -25
                                                       -25
                                                                              -36
                                                                                                                                                                        ~
                                                                                                                                                  -10
                                                                                                                                                                                              6-
                                                                                                                                      -21
                                                                  -36
                                            -26
                                                                                         04-
                                                                                                               -34
                                                                                                                                                            9-
                                                                                                                                                                                   2
                                                       -36
                                                                              -43
                                                                                                                                                 -16
                                                                                                                          -30
                                                                                                                                                                                              S
                                                                                                                                                                        7-
                                                                                                                                      -26
                                                                                         -46
                                                                                                               -39
                                            -37
                                                                                                                                                                                   -3
                                                                                                                              79
```

APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE Z DEFLECTIONS IN MATRIX TDF313 COLUMN

-106 -118

-63

-78

										00										
						7	60	9	7	9	7	9	80	80						
				7	7	5	9	4	2	6	5	4	9	5	7	_				
			9	Ŋ	5	3	က	2	2	_	~	2	4	3	R		7			
			S		6		7		0-		0-	,	1	(,,	~	ľ	S			
	ហ	5	8	6	-	1	-	-	-2	-2	-2	-	<u>-</u>	1		m	4	Ç	9	
	r.	4	2	2	0-	-	-2	-3	7-	7-	4-	-2	-5	0-	0	2	3	4	9	
	2	6	2	1	-	-2	.; Ε	7-	-5	-5	r.	7-	٠ -3	- 2	7	-	2	7	2	
7	ري د	3		0-	-5	-3	- 4-	-5	-5	-5	C	-5	- 4-	- 2	-	0	2	4	Ŋ	7
7	r	6		0-	~	-3	4	-5	-6	9-	-6	-5	- 4-	-3	2-	0	2	4	22	α
7	5	6	2	0	2	7-	-5	r.	9-	9-	- 9-	٦.	- 4-	-3		0-	0	4	9	α
α	9	4	2	0		7-		٦-	İ	9-		5		-3	5 -2	0	2	7	9	α
œ	9	4	3	0	-2	-3	4 -	٦-	4 -5	-5	5 -5	-5	7 - +	- 3		0	3	4		0
	_	ស	3	~	C	-2	4-	7-	Ĩ	7-	1 -5	7-	7-	-2		7		Ŋ	,-	
	α0	9	5	2		0-	-2	-5	-3	<u>د</u>	-3	-2	-2	7	0-	~	3	2	_	
	w.	7	1	4	~	1	-	-1	-2	2	-2	1	-			6	7	S	7	
			9	9	3	٣		C	1	0-	ī	C	С	2	3	4	5			
. 1			80	7	C	4	N	-	0	C	С	С		0	3	2	9			
					•	9	m	6	1	_	1	_	1	3	4					
							S		2	2	1		~							

THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE Z DEFLECTIONS IN MATRIX TOF 313 COLUMN 03

81

69--R3 -51 -60 -99 67-126 -33 -104 -64 -72 -80 -43 2 -21 -26 -95 -37 --86 -51 79- 75- 75--32 7--17 -43 -76 -27 8 -10 -14 -35 -65 -20 __ -26 -53 -32 -12 9 **ا** -14 07--19 2 7-C C -28 9-2-4 -19 14 6-10 0 71-2 -2 œ -5 4 -13 7-3 -15 -12 -13 -23 -10 -5 -20 -15 0[--18 -13 -30 -17 -37 -43 -27

-129 -119 -75 -88 -101 -113 -124 -134 -100 -110 68--76 -63 -50 -62 U 5--53 25-97--27 05--25

-50 -58 -67 -76 -88 -101 -114 -126 -137 -143

-89 -103 -117 -129 -140

THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE Z DEFLECTIONS IN MATRIX TOF 321 COLUMN OI

95 70

			<u>-</u>	4	-6 -10	-8 -10	7- 7-	2 1	. 6 01	17 17	24 27	38 38	53 54	71	86			
	1	9	ι	0 -	-1	α Ι	-1	М	10	18	56	35	55	69	85	102		
	12	10	10	, L	5	-	S	Ŋ	11	α	28	38	53	89	ъ3	66	7.	
12	13	12	12	10	11	7	11	6	13	20	30	40	52	99	4	95	106 1	120
10		13	14	13	16	14	17	15	00	23	32	40	5.0	63	73	89	98	115
9	7	11	13	16	19	19	22	21	25	77	32	39	45	58	94	8	18	105
0	_	6 0	11	17	21	23	56	56	80	2 A	30	35	37	67	53	7.0	75	63
α I	α	3	œ	17	23	92	59	28	28	28	25	59	27	38	40	57	61	42
-16	-18	7-	ç	16	25	28	31	30	82	25	19	20	14	56	28	43	46	65
-20	-13	-5	7	16	92	31	33	31	27	22	14	10	0-	13	17	31	36	52
-17	α	-2	6	17	56	32	33	31	27	20	13	4	1	5	10	22	27	41
-13	-3	2	12	18	56	31	34	32	28	21	14	9	2	3	Ŋ	15	19	32
8	~	9	15	20	28	32	36	33	31	23	16	7	_	0-	-	6	12	22
		12	21	22	34	36	04	36	34	56	21	10	4	-5	-2	7		
		19	31	32	41	41	45	41	39	30	52	15	6		-5	-		
				41	64	48	51	45	43	35	59	19	11	4				
						52	and the same of th	51	47	39	a management of the state of	21		Marrie Addison in Alberta Stranger				
										8	3			America de la constante de la				

-24

α.

	-15 -14 -12 -11 -10 -9 -9 -9 -10 -10	-14 -11 -9 -8 -7 -6 -6 -6 -8 -10	-15 -12 -9 -7 -5 -4 -3 -2 -2 -3 -4 -6 -9 -13	-14 -11 -8 -5 -2 -1 0 1 1 0 -1 -3 -6 -9 -13	-13 -9 -7 -3 -0 2 4 4 4 3 2 0 -2 -5 -9 -14	-11 -8 -5 -2 1 4 7 7 7 6 5 4 1 -2 -6 -10 -14	-9 -6 -4 -1 1 4 7 9 9 9 8 7 4 1 -2 -7 -11 -15	-5 -3 -1 2 4 7 9 10 10 10 9 R 5 1 -3 -7 -12	-4 -2 -0 1 4 6 9 10 11 11 11 10 8 5 0 -4 -9 -13	-3 -2 -1 1 3 6 8 10 11 11 11 9 8 3 -2 -6 -11 -15	-2 -1 -0 2 4 7 9 10 11 11 11 10 8 4 0 -4 -9 -13	-2 -1 0 2 5 7 9 10 10 10 9 7 5 1 -3 -7 -12	-3 -3 -2 -0 2 5 7 9 9 8 8 6 4 1 -3 -7 -11 -15	-5 -4 -3 -1 1 4 7 7 6 6 5 3 1 -2 -6 -10 -15	-8 -6 -5 -2 0 2 3 4 3 3 2 -0 -3 -6 -9 -14	-10 -8 -6 -4 -2 -1 -0 0 -0 -1 -2 -4 -6 -10 -14
84										1	84	‡ :				

THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE Z DEFLECTIONS IN NATRIX TOF321 COLUMN 03

-15 -14

-17 -16 -16

-13

-10

-7

15

1

£_

-3

7-

7-

5

9-

8

-10

-12

-

6-

α

-7

-7

-8 -7

-12 -10 -9 -9

-12

-13 -12 -11 -11 -11 -10

-13

-29 -12 09--10 -12 --18 9 -67 -105 6 7 -24 -121 -12 -18 -61 -5 -12 6 α[--41 -113 -63 -70 -76 -23 -27 α 1 -7 -17 -56 6 16--127 -1 -6 -11 -16 -19 -21 -3 -13 -38 -5 -13 -105 -27 -136 6--17 -2 -84 -97 -1n8 -118 7--51 -3 -35 -13 -12 --94 -108 -120 -131 -20 -22 -12 -10 -15 -75 -45 4 -7 -111 -7 -21 -34 -45 -55 -30 -19 -13 6--14 -14 98- 74--13 -65 -38 -10 -11 -12 -24 -12 -12 -11 -16 -34 -40 -48 -57 -71 -84 -53 -10 -13 -12 -12 -29 Œ -12 -49 -41 -34 -28 -23 -19 -16 -15 -13 -17 -14 -48 -6] 15 -11 -10 -12 -2 0 5--18 --15 -12 7 -16 8 -11 -81 2 9-راً -64 -51 -41 -32 -25 -20 -17 -15 -13 -28 9--17 4 / -2 -9 -19 -29 -37 œ I 69- 65-N t 7 -14 -11 --18 -13 02-2 -8 10 2 8--22 9 0--5 -16 -23 -13 -12 -7 -3 -5 4 -20 -24 -25 -50 61-9 _ -3 -3 -17 -12 -20 -11 -18 -28 0--25 -30 -41 -13 7--26 6--25 -20 -13 -34 -2 -24 -38 -18 -31 -10 0[--36 -33 -41 6 94--17 -30 -12 64-94--19 -26 85

THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE Z DEFLECTIONS IN MATRIX IDF322 COLUMN OI

-120 -131

-93 -107

-15 -14 -9 -2 7 -5 -10 -13 -10 -3 5 12 16 19	-4 4 10 14 17 18	6 8 11 13 14 14 13 10 7	4 14 14 15 14 13 11 R 5 2	21 19 17 16 13 10 6 2 -0 -1	25 23 21 18 15 11 6 1 -4 -2 -1	25 23 20 17 12 8 4 1 0 3	23 22 19 15 10 6 5 6 7 9	21 21 21 19 15 8 9 11 13 16 17	19 21 22 21 18 17 18 20 23 25	13 19 24 27 27 27 28 31 34	15 24 31 35 38 39 39 45 48	9 23 34 42 48 52 54 56 59 63	24 36 48 57 63 68 72 75 79	28 40 53 64 74 81 86 90 94	45 59 72 R3 92 99 105 110	51 65 79 91 102 111 119	59 72 86 99 112 122 127	80 95 107 120
---	------------------	-------------------------	---------------------------	-----------------------------	--------------------------------	--------------------------	--------------------------	--------------------------------	-------------------------------	----------------------------	----------------------------	------------------------------	----------------------------	----------------------------	---------------------------	-------------------------	-------------------------	---------------

THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE Z DEFLECTIONS IN MATRIX TOF 322 COLUMN OR

03	-
CLUMB	
322 C	
0 F 3	
H	
ATRIX	
X	
SNC	
DEFLECTIONS	
田 2	
T TO	
CH	
AN I	
0	
MILLIONTHS	
Ä	
QUANTITY	
AM	-
POSITION AND	
APPROX DIA TE	A STATE OF THE PARTY OF THE PAR

7- 7- 7- 7- 7- 7-	-3 -2 -2 -3 -3 -4 -1 -1 -1 -1 -2 -3 -4 -5	0 0 0 -0 -1 -2 -4 -5	2 2 1 1 0 -1 -2 -4 -6	3 3 2 2 1 1 -1 -2 -4 -6 4 3 3 3 2 1 -1 -3 -4 -6	4	4 4 4 3 2 0 -2 -4 -5	4 5 4 4 4 3 1 -1 -2 -4 -6	4 4 4 4 3 2 0 -2 -4 -5	4 4 4 3 2 0 -1 -3 -5	3 3 3 2 2 0 -1 -3 -4 -6	3 3 2 2 1 0 -1 -2 -4 -6	1 1 1 1 -0 -1 -2 -4 -5	-0 0 -0 -0 -1 -2 -2 -4 -5	-2 -1 -1 -2 -2 -3 -4 -5	-3 -3 -3 -3 -3 -4	5- 7- 7- 7- 5-	-7 -6 -6 -6
5- 5- 9-	-5 -4 -4 -2 -5 -4 -3 -2	-6 -4 -3 -2 -1	-5 -4 -3 -1 -0 1	-4 -3 -1 -1 1 2 3	-2 -1 -0 1 2 3	-2 -1 -0 1 2 3	-1 -1 -0 0 1 2 3	-1 -1 -0 1 2 3 4	7 -1 -0 0 1 - 2	-1 -1 -1 -0 1 2 3	-2 -2 -1 -0 1 2	-3 -2 -2 -1 0 1	-4 -3 -2 -2 -1	2 4 3 3	-5 -4 -4	5- 5- 9-	

5 THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE Z DEFLECTIONS IN MATRIX TOF323 COLUMN -98 -1111 -85 -70 -56

-38

-3A

-40

-40

-39

-35

-29

-20

-10

7-

9-

1-

-10

-15

-19

-21

-53

-53

-52

-50

-45

18-

-27

-14

0

7

2-

ī

7-

6-

-86

-83

-79

-73

-64

-53

140

-28

-17

01-

-12

7

N.

N

-58 -63 -66 -68

-38 -49

-26

-13

S

6

0

ហ

7

7-

-102

66-

-95

-89

-8

-70

-57

-43

-31

-15

6

7-

-87 -98 -106 -112

-75

-61

94-

-36

-27

-19

-12

-120

-93 -105 -115

-79

-65

-52

-41

-32

									37										
					19	2	20	28	31	777	51	69	8						
			25	200	14	14	11	20	22	35	4]	6.9	73	00	13				
		31	23	α	10	R	ſ.	12	13	26	33	67	24	α	104 1	129			
	35	8	21	16	5	4	æ	r.	2	1 A	56	43	25	٥	95 1	119	34		
33	28	25	18	14	αn	4	-	0	6	11	21	37	51	72	96	110	124 1	143	
30	در	21	16	13	α	Ŋ	٨	-	_	7	71	32	43	44	92	100	113	137	
76	α-	18	13	11	αį	æ	4	2	4	α	14	77	35	54	9	89	101	126	140
18	12	13	10	10	6	7	9	4	r.	7	10	20	92	777	53	16	8	114	129
11	ហ	60	7	6	6	0	6	Ŷ	ç	ç	ľ.	12	14	32	0 4	63	75	101	117
4	<u>۳</u>	2	¢	α	11	1.1	1	6 0	4	4	c	~	0	19	28	5.0	62	α	103
3	6	3	oc.	σ	13	13	15	10	7	· ~	7-	-7	14	4	19	04.	53	16	89
œ	11	80	13	12	18	17	61	14	1.1	m	-5	-10		C	14	32	97	29	
14	19	16		19									1	ì					1
ο.			21		52	22	25	19	17	α	ហ	4-	7	2	13	7.2	40	58	
25	29	52	C	27	m	30 22		25 19	25 17		. 5	3 -4	3 -1 -	7 7	13 13	25 27		50 58	
2		36	C		33			25	25	23 15	r.						0+0		
2			30	27	m	30	33	25	32 25	30 23 15	27 20 12 5	10 3	3	7	13	25	0+0		
20		49 36	43 30	35 27	44 33	39 30	41 33	50 41 33 25	32 25	23 15	27 20 12 5	3	10 3	5 4	15 13	23 25	0+0		
20		49 36	43 30	50 35 27	56 44 33	48 39 30	50 41 33	41 33 25	40 32 25	30 23 15	33 27 20 12 5	18 10 3	17 10 3	13 5 4	15 13	23 25	0+0		

									15										
					14	15	12	13	11	13	12	15	15						
			13	14	10	11	_	σ	Ç	σ		11	10	14	14				
		13	σ	σ	9	7	m	4	~	4	m	7	•	6	10	13			i
	10	6	ç	S.	2	~	ī	0-	6	C	-1	3	2	9	9	10	11		
10	œ	Ø	m	\sim	-	-1	-5	5	α;	7-	-5	ī	- 1	3	4	7	6	12	
10	Ľ	4	_	C	7-	7-	3	۵. ا	6	8		1	<u>س</u>	0	۸	_v	α	11	
6	9	M	0 -	~ ~	- 5	-7	6-	-10	-11	-10	6-	9-	- 5	-2	1	4	7	10	14
6	9	2	-	<u> </u>	9-	α I	-10	-11	-111 -	-11	-10	· 1	9-	£	0	m	7	11	15
6	9	2	ī	7-	-7	6-	-10	-111	-111	-111	-10 -	œ I	. 1	-3	C	· m	7	11	16
10	7	3	C	7-	-7	6-	-10 -	-11	-111 -	-111	-10	6-	-7	7-	0	4	œ	11	16
11	œ	4	1	7-	-7	6-	6-	-10	-10 -	-10	6-	6	2-	E - 3	_	4	6	12	17
12	6	2	~	-2	7-	-7	-7	6-	80	6-	-7	-7	7-	-2	2	S	6	13	
14	11	7	2	С	7	7-	7-	9-	91	-7	-5	5-	-1	0-	4	9	10	13	
15	14	6	œ	3	2	-1	-2	7-	<u>۳</u>	7-	-2	-2		2	9	c c	12	14	
		12	11	7	2	~	_	1	-1	-2	0-	0	3	Ŋ	αc	10			
		15	14	6	80	7	3	0	-	С	7	~	4	9	10	12			
		man comment of the co		13	11	9	S	2	~	1	2	6		89					
		The second secon				6		4	3	2		n		opiniste në mare rock ë sameke			a dependent of the same		
								¥ .		90									

16 15

-157 -95 -101 -113 -128 -145 -98 --145 -129 -111 -84 -102 -122 -145 -60 -70 -55 -70 -89 -141 -113

-78 -102 -128 -156 -50 80 07--2B -23 -31 64--73 -169 - 133 - 101

-145 -85 - 113-58 25--10 9 14 σ 1 -32 -61 26--170 -128

-41 -71 -102 -141 -11 38 43 58 57 41 14 -19 -53 -87 -171 -126

-96 -135 -6] -29 4 40 75 66 105 63 49 90 -14 -51 -88 -167 -125

-99 -139 178 -24 12 51 46 128 139 143 115 75 28 -15 -54 06--160 -125

9 -30 -71 -113 52 66 142 174 167 125 159 92 54 -20 -58 06--122

-150

-132

-17 -63 -106 -148

31

-187

2 -41 -80 -118 -157 -201

-145

-101

-58

-15

31

14-

-67

-102

-64 -102 -146 -23 21 71 45 62 112 135 145 137 101 97 06 103 52 26 15 16 -13 -17 -39 -43 -59 -59 -65

-67 -103 -139 -175 -221 -30 S 30 43 41 56 0 -23 -43

-99 -132 -164 -199 69--43 -25 -17 -20 -31 25--63 -80

-74 -72 -77 -91 -112 -137 -164 -194 -226 -259 -92 -85

-164 -171 -173 -178 -187 -202 -221 -241 -264 -278

-135 -128 -124 -124 -127 -139 -156 -177 -261 -227 -256

-227 -242 -258 -271 -286

THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE Z DEFLECTIONS IN MATRIX TDF331 COLUMN OL

-52

-6B

-104 -128 -97 99--127 69--84 -125 -34 -85 -121 -19 -33 -90 -119 -61 -26 -53 -5 _ 70 45 15 -17 -50 -20 ~ 19 17 -15 35 36 -68 -82 -101 -65 23 51 61 23 79 -27 81 81 -105 77-69 104 112 4 142 44 200 158 118 131 86--29 118 163 207 168 -60 194 176 16 103 96--19 205 157 -63 -58 129 225 202 27 156 197 222 226 66-81 83 -18 178 177 227 211 137 235 206 62 -24 -106227 -75 201 128 222 154 189 22 -131 -128 -120 -115 19 -32 124 159 205 103 128 172 -80 190 œ -43 43 166 20 142 -87 108 6 106 116 82 -55 18 82 26 65 -97 -28 37 -70 63 9 47 72 147 84 10 52 33 -85 -29 20 42 33 23 62 -11 [] 77-0 -101 13 20 -28 വ 13 C -17 ហ 4 9--10 4 -32 15 7 2

-80 79--50 -18 1 8 -29 -10 17 O 30 13 0 -54 35 -15 62 33 m 63 09 24 -12 76 0 20 136 82 33 -10 76 115 138 141 125 9 -34 11 167 26 34 -14 77-63 _ 178 100 59 -21 -56 56 -3 16 167 87 -34 69--19 39 138 7 -50 61 +34 16 -20 86 -65 31 47 -7 -51 -39 58 9 -81 -68 17 -29 -58 56 -19 -87 67--10 91-24-3 -24 99--50 6 -32 -16

8 THE Z DEFLECTIONS IN MATRIX TOF331 COLUMN THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF

-100 -100 -105 -113 -125 -148 -145 -144 -143 -145 -116 -107 -129

-A5 -102 -123 -72 -64 -61 -65 -75 -88 -125 -105

-83 -109 -61 E 7--30 -23 -23 -35 97--64 - A5

-70 -43 0 [m 17 22 15 0 -20 -45 -70 96--125

-133 -93 -61 -29 N 7 31 89 57 7.0 121 69 54 59 7 11 -30 -58 -50 -85

-57

-22

14

114

110

4

48

-21

-107

07--43 19-

-97 -127

α ()

-17

27

76

-80 -118

-41

46

26

-105

168

-20

12

56

107

-97 -134

160

-23

15

22

-59

-25

10

-136

-65

-34

-3

98

-17

-35

-41

-37

93

-45

-26

-41

-76 - 104 - 13767--25 <u>-</u>5 10 15 11 2--19 -38 -56 -73

-116 -92 -70 -52 -39 -31 -30 -36 144 -89 -75 -60 -105

-96 -112 -133 -83 74--7] -73 -79 - 88 - 88 86-

-129 -126 -119 -114 -110 -111 -117 -126 -138

-160-158 -157 -156 -155

-77 07-199 -51 -41 -34 -34 -42 -32 -25 12--50

-51 -61 -71 -41 -23 -16

74-29--55 -45 -32 -22 -14 6 -12 -22 -35 -50 -67 120

-66 -54 -43 -35 -22 -12 7-Ç 1 -19 -34 -50 -52 -70 -75 -95

-57 -1 -12 -23 -34 -46 -61 -27 -16 7-6 22 6 31 15 32 15 56 O: 14 3 -3 -19 -21 -35 -39 -58 64--103

-59 -41 -1 _ 15 30 42 47 77 33 15 15 -25 77--63 -82 -103

-62 -59 -19 15 3 14 25 32 41 64 57 61 29 49 54 35 ហ 7 -17 -32 -35 64--50 -65 -62 64--71

-74

-78

-38

-18

m

24

43

-107

99-

-50

-35

-13

σ

23

43

-82 -100 -121

-65

-27 -47

9-

-155

-136

-119

-83 -100 -117

-65

-81

-61

-4]

-22

-3

8

38

53

29

19 30 22

69 62 46

29 54 36

13

-7

72-

-37

97-

-21

-37

-48

-57

53 43

22

m

-13

-27

-37

-41

51 40

Φ

T

-11

-17

-30

-20

-24

-29

-36

22

9

9-

-20

-31

04-

94--26 6-

-102 7×--67 67--34 -24 -19

-45 -46 -50 -59 -72 -88 -106 -122 -139 -156 25- 65--53

-144 -160 -127 -96 -1111 -83 91--71 69--68

-166 -135 -150 -102 -110 -121

-95

-190

-181

-190 -177 -134 -148 -164 THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE Z BEFIRCTIONS IN MATRIX TOF332 COLUMN OL

78--25 -27 -15 -31 -21 -30 -17 -30 -17 -33 -19 7--34 -- 35 -- 36 -- 26 94--10 -14 -51 -15 -51 -17 -51 -19 -20 -20

-4B

-16

9-

97 100 94

-19

__

-21

Ø

~ -3 -5

9-

7-

ហ

9-

-16

-27

-17

-18

-13

 -5

6-

-20

Z DEFLECTIONS IN MATRIX TOF332 COLUMN O2 INCH OF OF AN IN MILLIONTHS APPROXIMATE POSIZION AND QUANTITY Ħ

	7.5
	C L
-58	
57	(
-58 -	
-58	
- 69-	(
•	,
	Ĺ
	٠.

-56 -51 -46 -43 -40 -40 -47 -45 -50 -54 -50 -42 -35 -30 -26 -25 -26 -29 -34 -41 -49 -50 -39 -28 -18 -13 -9 -9 -12 -17 -25 -33 -44 -55 -47 -34 -26 -18 -13 -9 -9 -12 -17 -25 -33 -44 -55 -43 -31 -20 -8 5 19 33 44 48 46 36 21 5 -9 -23 -37 -52 -26 -17 -7 6 21 41 59 72 77 74 62 43 23 5 -11 -27 -42 -24 -17 -8 3 17 36 58 74 83 84 76 61 39 19 1 -16 -32 -47 -15 -10 -4 7 22 41 59 72 76 73 61 43 22 5 -12 -27 -42 -16 -13 -7 3 18 37 58 74 83 84 76 50 39 18 0 -16 -32 -47 -15 -10 -4 7 22 41 59 72 76 73 61 43 22 5 -12 -27 -42 -16 -15 -11 -3 8 23 40 55 62 63 56 41 23 6 -9 -24 -39 -53 -29 -23 -17 -9 11 21 21 22 26 20 10 -1 -14 -26 -39 -54	-35 -29 -22 -15 -8 -1 4 6 4 -2 -10 -20 -30 -42 -55
--	--

THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE Z DEFELCTIONS IN MATRIX TOF332 COLUMN OF

-62 -63 -63 -64

-58

-37

-42 -36 -30 -24 -19 -14 -12 -12 -15 -21 -28

-53

-45

-3B

-33

-30

-28

-29

-35 -35

-39

77-

-59

-55

-50

24- 64- 44- 45

-48

-50

131 128 120 115 106 99 96 98 105 112	101 85 70 55 43 32 24 18 19 29 44 65 90 119	3 9 -8 -22 -29 -27 -16 3 27 54 8	64 44 29 6 -18 -43 -67 -81 -83 -70 -45 -15 17 50 84 125	47 28 11 -10 -37 -70 -103 -128 -137 -129 -103 -44 -23 15 53 88 127	32 17 0 -20 -47 -82 -124 -159 -178 -177 -157 -118 -69 -23 20 61 94 128	10 -5 -23 -48 -82 -128 -172 -201 -211 -200 -168 -118 -64 -17 26 64 97	5 -5 -20 -42 -72 -116 -166 -205 -227 -227 -205 -153 -104 -51 -7 33 69 103	-4 -13 -29 -55 -92 -142 -190 -222 -235 -225 -194 -142 -81 -35 5 42 77 104	1 -4 -13 -33 -63 -106 -156 -197 -222 -226 -207 -168 -112 -61 -19 19 54 87	6 0 -11 -33 -65 -108 -154 -189 -206 -202 -176 -131 -81 -39 -1 34 66	6 16 9 -3 -26 -58 -98 -138 -167 -178 -167 -136 -93 -54 -17 18 48 80	41 32 24 10 -17 -47 -76 -115 -138 -141 -125 -94 -62 -30 1 31 64	62 50 42 19 -6 -31 -61 -87 -100 -97 -82 -60 -35 -9 18 50	80 66 49 29 7 -16 -39 -56 -63 -60 -50 -33 -13 10 38	94 76 58 39 20 1 -16 -29 -34 -33 -24 -11 7 29	87 68 51 34 19 3 -7 -11 -10 -3 10	93 81 65 50 34 21 14 10 12 15	83 69 56 44 34	
--------------------------------------	---	----------------------------------	---	--	--	---	---	---	---	---	---	---	--	---	---	-----------------------------------	-------------------------------	----------------	--

N.

97

THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE Z DEFLECTIONS IN MATRIX IDF333 COLUMN OL

THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE Z DEFLECTIONS IN MATRIX TOF333 COLUMN

138 129 116 107 100 105 113 125 135 125 105 88 75 65 61 64 72 85 102 123	135 109 85 64 46 32 23 30 43 61 83 109 138 125 96 70 45 20 -0 -15 -22 -17 -3 18 43 70 99 133	35 58 30 1 -29 -54 -69 -70 -57 -31 -2 29 61 93	107 77 50 21 -11 -48 -84 -110 -121 -114 -89 -52 -14 22 57 92 131 96 71 45 17 -16 -55 -100 -137 -158 -160 -143 -106 -60 -18 22 59 97 133	66 43 17 -14 -53 -102 -149 -180 -192 -184 -155 -109 -58 -13 28 67 105	60 43 21 -7 -43 -90 -144 -185 -208 -210 -190 -152 -98 -47 -1 40 80 118 52 42 27 5 -27 -69 -123 -173 -205 -218 -209 -179 -131 -76 -27 17 58 97 127	41 32 17 -8 -44 -91 -144 -185 -207 -209 -189 -151 -97 -46 -1 41 80 118	8 37 26 10 -18 -55 -103 -149 -179 -191 -182 -153 -107 -56 -12 29 68 105	38 26 7 -21 -57 -100 -137 -156 -157 -140 -103 -57 -15 23 60 97	45 32 11 -16 -49 -83 -108 -117 -110 -85 -48 -10 25 59 9	73 58 43 21 -3 -29 -51 -65 -65 -51 -26 3 34 65 96 136	88 73 56 38 19 2 -11 -15 -10 5 25 49 76 104 137	105 89 75 60 47 36 30 31 39 52 70 92 116 144	111 98 88 79 73 71 74 83 96 112 133	129 126 119 114 110 111 117 126 138 146	155 156 157 158 160
---	---	--	--	---	---	--	---	--	---	---	---	--	-------------------------------------	---	---------------------

THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE Z DEFLECTIONS IN MATRIX TDF333 COLUMN 03

-138 -112 -112 -125 -147 -177 -213 -255 -175 -259 -92 -131 -231 -59 -208 -39 -191 -186 -36 -196 -56 -219 -92 -172 -275 -250 -136 -212 -184 -298 -237

-246 -65 -123 -181 -254 -174 -199 -110 -145 -93 19 9-77-7 51 142 76 173 32 114 43 180 110 159 30 81 9-114 33 27 -54 -27 -13 -107 -88 -80 -161 -289--212 -146 -225 -144 -277 -207 -250 -181 -55 -128 -107 24-19 27 100 103 270 236 177 170 216 235 277 227 255 192 207 136 139 65 58 -12 -23 -83 -89 -144 -198 -146 -262 -205

-159

9

80

165

233

282

304

298

262

201

124

37

-39

-98

-187 -147

-256 -198 -124 94-39 131 206 267 305 315 295 247 177 63 1 09--143 -108 -168

-174 -247 66--19 68 155 225 277 304 301 270 213 137 50 -26 -81 -137 -114

100

-228 -299

-312

-194

-66 -131

-2

50

82

92

62

77

-5

-53

-89

-163 -127

-30 -101 -168 -234 77 140 165 169 150 108 84 20 -34 -80 -140 -113

-64 -117 -173 -230 -23 7 C -20 -53 -88 -121 -154 -184

-96 -109 -138 -179 -225 -274 -328 -386 -118 -101 -218 -191 -165 -141

7 x c -642--198 -219 -196 -190 -206 -225

-389 -410

-355

-326

-305

-287

-284 -282

-286 -290

-402 -415 -385

-219 -200 -189 -191 -213 -197 -249 -229 -228 -196 -170 -148 -132 -114 -113 -123 -143 -173 -211

-240 -138 -186 16--63 -38 -29 -37 -57 -86 -118 -190 -152 -203 -159 -117

-115 -171 -63 -14 27 53 58 42 6 -32 -74

-41 -102 -164 -239 20 78 107 135 140 120 62 10 -41 -89 -182 - 131

-167 - 237-34 - 10138 011 169 203 212 194 154 101 38 -19 **-67** -157 -110

-192

-130

69-

-3

68

143

210

252

268

254

214

159

16

33

-17

-48

-67

69-

101

-101 94-~ 61 110 143 152 137 66 64 0 177--89 -140 -113

-156 -101 -52 8 35 65 83 62 55 16 128 69--107 -168 -140

-155 -70 -109 -36 6α 10 -3 -64 -30 -197 -164 -132 -98

-128 -97 -75 -61 -56 -63 -82 -193 -162 -133 -106

-147

-136

-123

-119

-121

-176 -154 -133

-200

-215

-227 -212 -200 -188 -181

-257 -239 -200 -215 -224 -205 -191 -190 -268 -249 -244 -204 -171 -143 -122 -113 -119 -135 -160 -193 -233

-205 -114 -157 -57

-78

64-

-34

-36

-89

-127

-168

-264 -214

-185 -130-78 66-14 43 20 36 2 -43 -91 -139 -190-247

-53 -113 -173 -247 79 107 122 127 46 25 6--64 -235 -172 -117

-170 -106 -41 20 8 155 188 196 176 134 4 13 -50 -106-159 -217 -245 -178 -40 -109 33 112 182 230 252 546 214 161 26 19 -45 -100-151

-233 -178 -108 -34 47 136 217 281 321 332 312 564 196 115 34 -26 69--98 -118

-179 -246

-251

-120 -179

-62

4

24

26

117

115

89

47

2-

67-

-89

-151 -120

-194

-125

21

104

123

546

284

594

275

231

167

91

19

-35

-67

102

76-

-46 -110 -174 21 0 147 172 189 181 133 8 21 -32 -73 -124 -100

-256 -195 -141 06--42 0 30 39 28 -2 07--79 -114 -147 -176

-94 -130 -172 -219 -270 -65 -50 -50 -65 -91 -207 -177 -148 -119

-251 -212 חמן--155 -217 -192 -170 -151 -136 -130 -138

-263 -279 -239 -223 -210 -212 -230 -218 -245

-307 -299 -299 -301 -302

-116 -152 -103 -85 -117 -101 -91 -85 -84 -117 -101-74 -121 -70 -78 -106 -72 -53 -59 -1111 -86 24--38 -53 -122 -23 -88 94--25 -51 -55 -81 - 101-19 -58 -18 5 -23 S -19 -67 -54 -66 -pl -97 -115 -33 18 -27 œ 62 -116 -126 -47 2 36 64 16 -10 7 -63 36 62 53 -26 65 67 27 76 12 -45 -88 -101 86 80 38 61 8-86 48 98 75 -30 30 104 62 77 46 78 101 112 111 100 98 1 9 112 76 -19 -77 38 84 1111 4 -70 -52 -39 -44 100 116 13 29 103 108 -71 -14 37 4 86 89 100 108 53 œ 63 -73 -22 25 64 83 69 60 87 -7 34 -85 -39 7 40 07 29 19 66-60 10 61 -100 -60 -49 -22 35 10 37 9 U6--53 -20 23 27 6 - R3 -24 6-9 -113 -30 -78 -50 -14 9-92--140 -109 -55 -37 -79 -67 -50 -25 -21 77-09--35 -108 -8] -43 -148 - 109199--85 -87 -143 -67 -53 -112 -57 -143 -114 -87 -85 -113 -66 -147 -108 **-62** 16-103

-202 -76 -69 -64 -62 -66 -80 -99 -122 -146 -171 -197 -223 -172 -145 -91 -119 -65 -41 -25 -17 -19 -28 -41 -52 -85 -65 -78

-73 -102 -132 -166

-43

-10

19

41

56

29

09

35

α

-36 -15

-66 -53

-150 -186

-94 -122

164

-34

8-

12

54

56

16

7-

-22

-36

<u>|</u> ዓ

-177 -200 -223 -137 -156 -108 - 120-111 -107 -104 -105

-136 -143 -146 -151 -161 -175 -193 -211 -231 -243

-192 -206 -221 -234 -248

THE Z DEFLECTIONS IN MATRIX TOF342 COLUMN OF THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF

1-

-23

-19

-107 -100 -90 -82 -77 -76 -86 -96 -103	-98 -82 -68 -57 -49 -45 -47 -54 -64 -77 -93	-106 -85 -67 -51 -36 -23 -15 -14 -20 -31 -46 -63 -82 -103	-99 -76 -56 -36 -17 1 14 20 17 6 -12 -31 -52 -74 -99	-94 -69 -47 -26 -3 19 38 49 51 43 26 3 -21 -45 -69 -99	-87 -63 -42 -20 5 32 54 71 78 75 62 39 11 -16 -42 -68 -97	-79 -60 -40 -18 7 37 64 86 99 101 92 73 45 13 -16 -44 -71 -98	-57 -39 -19 5 35 66 92 111 119 115 100 75 43 9 -21 -5n -77	-53 -40 -23 -2 27 60 90 113 127 129 119 98 68 34 -0 -31 -59 -86	-47 -39 -27 -11 14 46 79 106 125 133 129 113 R7 54 19 -14 -43 -71 -93	-39 -31 -20 -1 28 60 90 113 126 128 118 97 68 33 -0 -31 -59 -86	-35 -27 -14 R 36 K7 92 110 117 113 98 73 41 8 -22 -50 -78	-38 -35 -26 -11 11 38 65 85 97 99 90 71 43 12 -17 -44 -72 -98
--	---	---	--	--	---	---	--	---	---	---	---	---

-26 -38 -52 -69 -87 -108 -85 -101 -96 -105 -111 -72 -62 -89 -55 -20 -20 -85 -52 -84 -54 -87 -83 -71 -59 -48 -36 -26 09--92 -68 -98 -77 -100

-98

-18

36

59

72

76

69

53

33

80

-29 -13

05-

64-

-72 -101

-48

-25

7

25

39

47

46

36

19

T

-36 -20

-48

-61

-78 -102

-56

-36

-17

0

12

15

7

91-

-31

94-

-71 -59

-120 -119 -120 -121 -123

THE APPROXIMATE POSITION AND QUANTITY IN MELLIONTHS OF AN INCH OF THE Z BEFLECTIONS IN MATRIX TOTALS COLUMN 03

6 240 171 235 2 164 239 101 167 237 9 111 175 239 5 69 137 201 22 93 158 210 7 55 122 185 25 92 155 3 69 130 192
--

POSITION AND QUANTITY IN MILLIONTES OF AN INCH OF THE Z DEFLECTIONS IN MATRIX TOF343 COLUMN OI

α

119 123

74K Ţ 30 101 -39 -19 - RO -68 -27 -19 -58 -139 -207 -255 -277 -270 -236 -177 -100 -78 -93 +177 -247 -295 -315 -305 -267 -206 -131 -124 -201 -262 -298 -304 -282 -233 -165 ろり -65 -136 -192 -227 -235 -216 -170 -103 -50 -137 -213 -270 -301 -304 -277 -225 -155 -71 212 172 138 112 112 125 147 177 77-2 a C 7a--161 -226 -265 -279 -264 -222 -159 -165 -211 -232 -227 -197 -144 [5] -159 -180 -173 -142 -84 -140 -165 -169 -150 -108 -33 -81 -110 -114 -94 -50 -35 -R2 -43 -92 -30 C 64--57 -114 77-191 165 141 -95 ហ -20 -82 -37] A 4 -22 -7 -5 140 113

268 249 224 205 191 190 200 215 239 257	264 214 168 127 89 57 36 34 49 78 114 157 205 258 247 190 139 91 43 -2 -36 -50 -43 -14 29 78 130 185 248	235 172 117 64 9 -47 -94 -122 -127 -107 -64 -7 53 113 173 247 217 159 106 50 -13 -79 -134 -176 -198 -155 -98 -28 41 106 170 242	51 100 45 -19 -92 -161 -214 -246 -252 -230 -182 -112 -33 40 109 178 os 40 -11 -87 -145 -237 -26 -287 -269 -167 -166 -23 63 126	39 57 4 -67 -149 -224 -282 -317 -322 -297 -244 -171 -84	78 50 2 -69 -151 -225 -282 -316 -320 -295 -243 -170 -83 1 77 148 216 88 67 35 -19 -91 -167 -231 -275 -294 -284 -246 -183 -104 -21 54 125 194	. 88 65 27 -28 -96 -162 -213 -243 -247 -225 -177 -107 -29 43 111 179 245 124 100 73 32 -21 -81 -133 -172 -189 -181 -147 -91 -21 45 110 174 244	51 120 89 49 2 -47 -89 -115 -117 -97 -54 3 62 120 179 251	176 147 114 79 40 2 -28 -39 -30 -0 42 90 141 195 256 207 177 148 119 91 65 50 50 65 94 130 172 219 270	217 192 170 151 136 130 138 155 180 212 251	251 245 230 218 210 212 223 239 263 279	244 301 302
---	---	---	--	---	---	---	---	---	---	---	-------------

THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE Z DEFLECTIONS IN MATRIX TOF343 COLUMN 03

	0
	ı
-	<u>ر</u> ا
	Œ
	_

-13 -6	-16 -13 -7 -2 -1 2 6 -8 -21 -32 -41 -47 -51 -55 -57 -61 -66
--------	---

THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE Z DEFLECTIONS IN MATRIX TOPALL COLUMN OI

-83

-10 -23 -36 -47 -56 -63 -69 -73 -77

-97

-93

-88

-82

-74

-65

-40 -53

-18 -2B

-8 -12

9-

S

9

۳,

6

5

1

0 [-

-93 -101 -108 -113

-12 -15 -20 -26 -35 -46 -59 -72 -84

-93 -104 -113 -121

-67 -80

-43 -53

-35

42-

-75 -88 -102 -114 -124 -130

-52 -62

-43

-33

-98 -111 -123

78-

-40

55 25 25 25 25 25 25 25 25 25 25 25 25 2
--

	Ċ
	CONTRACTOR OF
	24
	É
	_
	E
	Ē
	5
	THE MATERIAL TOTAL
	00
	RETECTIONS
	PA PA
	F
	L
2	Н
	N THEN OF THE
α.	Y
3	1
	i i
	Š
(*)	- E
	22
(*)	OF THE MILLIONTHS (
	THE APPROXIMATE POSITION AND QUARTITY
	V M
	E
	H
	2
	Ž
	Ä
	Ě
	2
	F

2 2 1 1 2 2		1 1 0 0 1 1 1 2	0 -0 -0 -0 0 0 1 1 1 2	-1 -1 -1 -0 -0 0 1 1 2	1 -1 -1 -1 -1 -0 0 1 2 2	-1 -1 -1 -1 -1 -0 0 1 2 2	1 -2 -2 -2 -1 -1 -1 -0 1 1 2	-2 -2 -2 -1 -1 -1 0 1 1 2	-2 -2 -3 -1 -0 0 1 2	-2 -2 -2 -1 -1 -1 0 1 1 2	1 -2 -2 -1 -1 -1 -0 1 1 2	-1 -1 -1 -1 -1 -0 0 1 2 2	1 -1 -1 -1 -1 -0 -0 0 1 2 2	-1 -1 -0 -0 -0 -1 - 1-	0 0 0 0 0 1 1 2 2	1 1 1 1 1 2 2	1 1 1 1 1 2	2 2 2 2 2 2	2 2 2 8 8
~	_	-	C	C	-	-	-	7	_	7		ī	C	0	C	-	_	8	
_		-	0	O-		ī		ī	ای.	-		-		0-			1	~	2
-	-	С	0 -	Ú-		-1		~ 1		<-	2	-		C	0	-	-	C :	~
	_	C	0-	ī	7	-	c-	-2	۸	-2	c -	-	1	C	c	-	7	~	3
~	_		0 -	ī	7	-	2	7	2-	- 2	2 -	ī	ī	7	0	-	-	~	(~
~	-	1	C	-	7	-	-	2	-2	۲-	7	ī	_	-	0	-	-	~	8
2	~		0	0-	-1	-	-	-	-	ī	7	ī	-]	0	0	-	-	~	
2	2	1	_	С	0-	ī	7	7	ï	-	7	ī	0-	0	-	-	2	2	
Λ.	~	~	-		С	C	0-	T	0-	ī	6-	C	0	C	~	-	~	C.	
		^	~		-	С	С	C	0-	CI	С	0	-	-	1	C.			
		m,	C 1	~	-	_	-	C	0	C	c	C		-	~	~			
				N	2	_		0	0	Ú	0	0		-					

-20 -13 9-N 0 12 ∞ 4 6

6[--15 -10 -5 3 12 ∞ 5 -11

- 15 91--16 -16 -13 -10 2 N. 2--7 -13

α1 -11 -13 - 14 -14 -13 -11 œ 1 9-1 01--15 -20 -29

9-6--13 -14 -] 4 - 14 -13 -14 -15 α[-26

0 T 2-9--10 6 -15 -17 -18 120 -22 -23 -25 -30 -37 -43 -52 -6.1

7 4-C 4 7 7 7-9-__ -10 = -14 -16 -17 6[--20 -22 -22 75--24 -26 -26 128 -28 -30 -31 -35

ī

œ 9 -5 9-6 -14 -18 -2] -22 -23 -25 -27 -30 -35 -4]

-17 -14 -11 5--7 71--18 -20 -20 120 120 -21 -24 -28 -33 -39 -45 64-

-18

64-

97-

04-

-39

-39

-37

-34

-30

-23

-14

7-

-2

9-

-10

-16

-23

112

-21 118 -16 -17 -20 -21 -20 -18 -15 -] 4 -16 -20 -30 -25 -35

128 -27 92-126 -26 -23 -18 -12 30 -7 -10 -15

-64 09--54 -51 147 -41 -33 -22 6 2 N ī ī 9--12

-81 -75 -72 -68 -63 -56 -47 -36 -23 -1 6 -3 --5 61

-106 -100 -93 - R3 -72 -59 -45 -34 -26 -19 -] 4 -11

-95

-91

-87

-81

74-

79-

-53

04-

128

-18

-12

00

N.

7-

-5

-120 -112 -92 -103 64--66 -52 27-78--27

-123 -100 -113 -87 -73 -60 -50 -41 -35

121- 601- 96--81 19-

6 THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTES OF AN INCH OF THE Z BEFLECTIONS IN MATRIX TOPALL COLUMN

										_										
							_			27	10		~							
						6	10	11	19	23	35	43	58	73						
				.6	12		9		13		50		55		89			manda di di su di su man di Sangti.		
				16		7	0	9	0	18		36	.+	99		104	6			
			25	17		9		3		12	23	30	77	09	8	16	11			
		25	22	7	12	20	æ	4	ß	7	α_	27	41	56	76	_	112	92		
	92		20	_	12		S		3		14		38	5	7.0	6	105		35	
		22		16	_	6	~	S		3	_	24		51		84		117	1	
	23	0	18	15	13	=	œ	7	4	α	13	22	35	97	44	75	96	80	130	
9	18	4	15	m	13	∩.i	10		6	2	15	21	31	39	26	65	98	1 96	119	30
	1	1		-	12	~	12	1	12	1	15		25	(4)	46	V.	47	6	10	
α		œ		10		13		13		13		17		30		53		84	1	118
-	4	-	v	7	12	14	15	16	14	14	14	12	18	α	34	40	61	70	93	106
7-	-3	Œ.	6	9	=	c	17	ac.	9	4		7	σ	r.	21	28	48	57	80	
1	5	1	0		~		20		α	_	6		-		σ	~	37	C.	89	σ
7-	•	4		œ		α		71	-	14		3	ı	61		α		27		77
	-	4	ß	12	14	ار	23	76	20	11	6	4	-5	4-	~	3	50	56	ς.	
	4		-		19		56		54		13		C		3		53	1	64	
	ζ.	7	ar	18	10	25		28	σ	2	 α	α	<u>اک</u> ا	C	٣.	10	5	33	0 7	
	12	50	٦	25	25	32	31	34	50	22	-	14		٣.		σ	-	28	4	
			23	35	31	40	38	[7]	35	33	54	21	10	ıc	0	σ	17			
			39		77		95		17		31		17		0		14			
				40		5		67		40		75	0	15			ì			
			the second secon		57	24	56	g B	67	94	36	32	22	10	14					
							14		56	51	67		25							
										ų:	11	13								

THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE Z DEFLECTIONS IN MATRIX TOP412 COLUMN OR

5 5 4 4	4 4 4 3 3 3 3 3 3 3	4 3 3 2 2 2 2 2 3	4 3 2 2 1 1 1 1 1 2 3 4	3 2 2 1 0 0 -0 -0 0 0 1 2 3 4	2 1 0 -1 -1 -1 -1 0 1 2 3 4	2 1 -0 -1 -2 -2 -2 -1 -1 -0 1 2 3 4	1 -0 -1 -2 -3 -2 -2 -1 -0 1 2 3 5	0 -0 -1 -2 -3 -3 -3 -3 -7 -1 -0 1 2 4	-0 -1 -2 -2 -3 -3 -3 -3 -2 -1 v 1 3 4	-0 -1 -1 -2 -3 -3 -3 -3 -3 -3 -2 -1 1 2 3 4	-0 -1 -2 -2 -3 -3 -3 -3 -3 -2 -1 0 1 3 4	0 -0 -1 -2 -3 -3 -3 -3 -2 -1 -0 1 2 4	0 -0 -1 -2 -2 -2 -2 -1 -0 1 2 3 5	1 1 -0 -1 -2 -2 -2 -1 -1 -0 1 2 3 4	2 1 0 -1 -1 -1 -1 -0 0 1 2 3 4	3 2 1 1 0 0 0 0 0 1 1 2 3 4	3 2 2 2 1 1 1 1 1 2 2 3 4	4 3 3 3 2 2 2 3 3	4 4 4 4 3 3 3 3 3 3	5 5 5 4
			۳.	~ ∶	-			0-	ī		1 1 0 -0 -1	0-	0-	2 1 1 1 -0		∼	2			

THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE Z BEFLECTIONS IN NATRIX TOF412 COLUMN 03

~	
σ	
5	
16	

-1 6 10 13 10 3 -5 -11 -16 -18	-10 -3 3 9 13 4 -4 -10 -14 -17 -18	-27 -19 -11 -6 -1 3 2 -4 -9 -13 -15 -16 -15 -13	-39 -27 -19 -14 -10 -7 -6 -8 -11 -13 -14 -14 -13 -10 -7	-48 -36 -25 -18 -15 -14 -14 -14 -14 -14 -13 -11 -8 -5 -2	-55 -45 -36 -29 -25 -23 -22 -21 -19 -17 -16 -13 -10 -6 -2 0 2	-60 -51 -43 -36 -31 -28 -27 -26 -23 -21 -18 -15 -11 -6 -1 5 2 1	-53 -46 -40 -35 -31 -29 -27 -25 -23 -21 -17 -12 -8 -4 -1 -0 -2	-53 -46 -40 -35 -31 -27 -26 -25 -24 -22 -19 -15 -10 -6 -5 -6 -7 -9	-48 -44 -39 -33 -28 -24 -22 -21 -21 -22 -21 -19 -15 -8 -9 -11 -13 -15 -17	-39 -35 -30 -25 -20 -17 -15 -16 -19 -21 -22 -21 -18 -17 -18 -20 -22 -25	-30 -25 -20 -15 -11 -8 -9 -14 -19 -24 -27 -27 -27 -27 -28 -30 -34	-23 -20 -16 -10 -6 -3 -0 -5 -15 -24 -31 -35 -38 -39 -39 -44 -47	-14 -11 -6 -1 -1 1 4 -9 -23 -34 -42 -48 -51 -54 -55 -58 -62	-8 -4 2 -1 -2 -3 -11 -24 -36 -47 -56 -63 -68 -71 -74 -79	-3 -3 -4 -7 -11 -18 -28 -40 -53 -64 -73 -81 -86 -90 -94	-5 -9 -13 -18 -25 -33 -45 -58 -71 -83 -92 -99 -105 -109	-19 -25 -32 -41 -50 -65 -78 -91 -102 -111 -118	-30 -39 -48 -59 -72 -86 -99 -111 -121 -127
--------------------------------	------------------------------------	---	---	--	---	---	--	--	---	---	---	---	---	--	---	---	--	--

THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE Z BEFLECTIONS IN MATRIX IDPAIS COLUMN OIL

-65 -79 -94 -107 -119

-2 -2 3 10 18	14 6 1 -3 -1 5 13 19 24 27	21 13 5 -2 -7 1 9 15 20 23 26	41 29 20 12 6 1 1 6 12 16 19 21 23 24	51 37 26 19 12 R 6 7 10 13 15 17 14 18 18	59 45 32 25 19 14 11 11 11 12 13 13 13 14	65 52 41 32 26 20 17 15 13 12 12 11 9 8 7 8 11	57 47 38 31 25 22 19 16 14 11 9 7 5 3 1 7 12	59 49 41 34 28 23 20 17 14 12 9 6 4 4 4 7 13	49 41 35 28 23 19 16 14 13 10 7 4 3 5 9 15 20	47 40 33 27 21 16 13 12 12 10 7 2 7 13 18 25 29	37 31 24 17 12 8 4 10 12 13 13 12 14 18 24 30 37	32 27 21 14 8 3 1 5 11 16 19 22 24 27 31 37 44	23 18 11 5 -0 -6 -2 7 17 24 30 35 38 42 45 54 60	19 15 9 3 0 -4 -10 4 18 29 38 45 51 56 61 67 75	15 10 3 3 3 9 9 21 34 45 56 64 71 77 42 91	12 10 10 11 13 19 28 40 53 65 75 84 92 98 106	16 18 20 24 30 37 4x 62 75 87 97 106 114 121	29 34 40 68 58 71 RE 97 109 128	42 51 59 69 R2 95 10R 120 131	79 93 10A 120 132	
			[+	51							42 37			19 15		12	16				

THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE Z DEFLECTIONS IN MATRIX TOPAL3 COLUMN OF

6 5 6 7 7 6 6 6 7

1
덩
ğ
170
ŭ
3
Ã
Ħ
MATRIX
X
H 8
9
CI
2
P
8
2
A
4
23
LI
Ä
E
H
H
Yn o
2
MA
H
180
THE APPROXIMATE POSITION AND QUANTIT
MAI
H
PPR
EA
日

-67 -81 -96 -109 -121

-15 -11 -8 -1 -6 -4 -3 -1 -0 -4 0 -1 -1 -1 -4 -17 -19 -11 -14 -17 -19 -29 -31 -36 -40 -46 -49 -56 -60 -64 -75 -81 -91 -96

6-

C

~

13

13

	8
	200
	COL
	121
	IN MATRIX TOPACE COLUMN
	Ä
	MAT
	Ä
	DEPLECTIONS 1
	ECT
	NET.
	N3
7.	H
5	6
C	P AN INCH OF THE 2
-	7
<u>-</u>	6
	IN MILLIONTHS OF
J.	LIO
	À
	Ä
	WANTE
	POSITION AND Q
	N K
	Ĭ
	2
	V Y
	E APPROXIMATE
	PPR
	THE APPR
	P
	1

					:		1	İ	27					and the state of t					
		i			6	10	_	19	23	35	43	58	~						
				12		ν		13		60		52	7	80	_				
		22	16	_	7	c	v	σ	18	23	36	77	44	81	104	10			
		į	17		¢	(*)	3	ر.	12	į	30		60		16				
	52	CC	17	12	7	1.7	3		7	٦	27	4.1	26	76	91	112	126		
56	22	20	16	2	6	5	2	3	6	14	54	38	51	7.0	84	105	117	135	
23	0	7	ហ	13	_	œ	7	4	α	13	20	35	44	44	75	96		130	
80		15	~	13	-	10		σ	0	15		3		56		90	108	119	
=	14	11	13	2	12	12		12	12	5	21	25	3.5	44	9	14	96	107	139
4	x	V.	0	~	13	ری	13	7	13	7	17	α	0.5		53		36] 2
	C	the same of the same of the	7	12	14		16		14		\sim		α_	34	40	(4)	70	66	106
-	X.	0	v.	=	4	17	x	16	14	F.	7	σ	ic.	12	28	77	57	80	9.1
<u>ர</u>	-3	c	α	12	α	50	2]	17	4	3	۷.	ī	6-	3	18	37	17	8	17
ĩ	7	S.	Q.i	14		23		20	_	σ	€.	r.		~		56		58	
4	,		12	61	21	92	76	23	17	12		0 -	7-	3	13	23	39	64	
12		a	18	24	25		a Z	20	21	7	υ	رن ناک	C	m	10	٥	33	0 7	
_	51	No. 10 and 10 an	25		31	E.	34		27		14		2		σ		77	4	
		27	35	33	077	38	[7	34	33	24	50	10	i.c	Λ.	σ	17			
		30	0 7	43	7,	46	e 7	[7]	40	30	26	17	14	6	ì	14			
			•	57	63	26		48	7 94	36	32	22	π	14					į.
					5	29	57	96		17	3	25					The state of the s		
									51	11	8								
	1																		

α

	•
	a hor derron
	16,1
	DESTRUCTIONS
-	1
)	N THERE &
	•
	9
,	TH MILLIAMENS
	N AND QUARTERY
	A THE
	POSITIO
	PPROXIDARE
	PPR
	THE A

	5 4 4 4 4	4 4 4 3 3 3 3 3 3 3 3	4 3 3 2 7 7 7 7 3	4 4 3 2 1 1 1 1 1 1 2 3 4	4 3 2 1 1 0 -0 -0 -0 0 1 2 3 4	4 3 2 1 0 -1 -1 -1 -1 -1 -0 1 2 3 4	3 2 1 1 -0 -1 -2 -2 -2 -1 -1 -0 1 2 3 4	3 2 1 0 -0 -1 -2 -2 -3 -2 -2 -1 -0 1 2 3 4	1 1 0 -0 -1 -2 -3 -3 -3 -3 -2 -1 -0 1 2 3	1 1 0 -0 -1 -2 -2 -3 -3 -3 -3 -2 -1 -0 1 3 .4	1 1 0 -0 -1 -2 -2 -3 -3 -3 -3 -3 -3 -3 -2 -1 0 2 3 4	1 0 -0 -0 -1 -2 -3 -3 -3 -3 -3 -2 -1 -0 1 3 4	1 0 -0 -1 -1 -2 -3 -3 -3 -3 -2 -1 -0 1 2 4	1 1 0 0 -1 -1 -2 -2 -3 -2 -2 -1 -0 1 2 3 4	2 1 1 0 -0 -1 -2 -2 -2 -1 -1 -0 1 2 3 4	2 2 1 1 -0 -1 -1 -1 -1 -0 0 1 2 3 4	3 2 2 1 1 0 0 0 0 0 1 1 2 3 4	3 3 2 2 1 1 1 1 1 1 2 2 3 4	4 3 3 7 7 2 2 7 3 3	4 4 4 3 3 3 3 3 3	5 5 5 4
--	-----------	-----------------------	-------------------	---------------------------	--------------------------------	-------------------------------------	---	--	---	---	--	---	--	--	---	-------------------------------------	-------------------------------	-----------------------------	---------------------	-------------------	---------

17 16 11 3 -6	0 7 11 14 11 4 -4 -11 -15 -18	-9 -9 3 9 14 5 -3 -9 -14 -16 -17	-26 -18 -11 -6 -1 3 2 -4 -9 -13 -15 -15 -14 -12	-37 -26 -18 -14 -10 -7 -6 -8 -11 -13 -14 -14 -12 -9 -6	-47 -36 -25 -21 -18 -15 -14 -14 -15 -14 -13 -10 -7 -4 -1	-54 -44 -36 -26 -23 -23 -21 -19 -18 -16 -13 -10 -6 -1 1 3	-60 -50 -43 -36 -31 -29 -28 -26 -24 -22 -19 -15 -11 -6 -0 5 3 2	-53 -46 -46 -35 -31 -29 -28 -26 -24 -21 -18 -13 -8 -4 -1 0 -2	-53 -44 -41 -35 -31 -28 -27 -25 -24 -23 -20 -16 -10 -7 -5 -5 -6 -8	-48 -44 -39 -34 -29 -25 -23 -22 -23 -22 -20 -15 -9 -9 -11 -13 -14 -15	-35 -36 -36 -26 -20 -17 -16 -17 -20 -22 -23 -22 -19 -17 -18 -20 -22 -24	-30 -26 -26 -15 -11 -9 -9 -14 -20 -25 -27 -28 -27 -28 -30 -33	-23 -20 -16 -10 -6 -3 -1 -6 -15 -24 -31 -36 -38 -39 -39 -39 -44 -46	-14 -11 -6 -1 -1 1 4 -10 -23 -34 -42 -48 -52 -54 -55 -58 -61	-7 -4 2 -1 -3 -3 -11 -24 -37 -48 -56 -63 -68 -71 -73 -78	-3 -2 -3 -7 -11 -17 -28 -40 -53 -64 -73 -80 -85 -89 -93	-5 -9 -13 -18 -25 -33 -44 -58 -71 -82 -92 -99 -104 -108	-18 -25 -32 -40 -50 -64 -78 -91 -101 -110 -117	-29 -38 -47 -58 -71 -85 -98 -110 -121 -126	-64 -78 -93 -106 -118
---------------	-------------------------------	----------------------------------	---	--	--	---	---	---	--	---	---	---	---	--	--	---	---	--	--	-----------------------

THE APPROXIMATE POSITION AND QUANTITY IN MILLIGHTHS OF AN INCH OF THE Z BEFLECTIONS IN MATRIX IDPA22 COLUMN OI

-1 -1 4 11 19 15 7 2 -3 -1 6 13 20 25 28	22 14 6 -1 -6 2 9 15 20 24 27	42 30 20 13 6 1 1 7 12 16 19 22 24 25	52 38 26 19 13 8 6 7 10 13 15 17 18 19 19	60 45 32 25 19 14 11 10 11 12 13 13 13 13 15	56 52 41 32 25 20 17 14 13 12 11 10 9 8 7 9 12	69 57 47 38 31 25 21 18 15 13 11 9 7 5 3 2 8 13	59 49 41 34 27 23 19 16 14 11 9 6 4 3 4 7 14	57 49 41 34 28 22 18 15 14 12 10 7 3 3 5 10 15 21	52 47 40 33 26 20 15 12 11 11 10 6 2 7 13 19 25 30	H 42 37 31 24 17 11 8 7 9 11 13 13 11 13 18 24 31 37	33 27 21 13 7 2 1 5 10 15 19 21 23 27 31 37 45	26 23 18 11 4 -1 -6 -2 7 16 24 30 34 38 42 46 55 61	20 15 2 3 0 -4 -10 3 17 28 38 45 51 56 61 68 76	15 11 3 3 2 8 20 33 45 55 64 71 77 83 92	13 11 10 11 13 19 28 40 53 65 76 84 92 99 107	17 19 21 24 30 38 49 62 75 87 97 106 114 122	30 35 41 49 58 72 85 98 109 128	43 52 60 70 82 96 109 121 132 138	RI 95 109 121 133	
---	-------------------------------	---------------------------------------	---	--	--	---	--	---	--	--	--	---	---	--	---	--	---------------------------------	-----------------------------------	-------------------	--

THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE Z DEFLECTIONS IN MATRIX TOPAS COLUMN OF

6 6 5 5 5 5 5 5	6 4 4 3 3 3 4 5	3 2 2 1 1 2 2 3 5 6	0 0 -0 -0 0 1 2 3 5 7	-1 -2 -2 -2 -1 -0 1 3 5 7	-3 -3 -3 -3 -2 -2 -0 1 3 5 7	-3 -4 -4 -4 -3 -2 -0 1 3 5 8	9 7 -4 -5 -5 -5 -4 -7 -0 5 4 6	-4 -5 -5 -5 -5 -4 -2 0 2 4 7	5 -5 -6 -6 -5 -4 -4 -1 1 3 6	-4 -5 -5 -5 -4 -2 0 2 4 7	7 -4 -5 -5 -5 -4 -3 -5 -0 2 4 6	-3 -4 -4 -4 -3 -2 -0 2 4 6 8	3 5 7	-1 -2 -2 -1 -1 0 2 3 5 7	1 0 0 0 1 1 2 3 5 7	3 2 2 2 2 3 4 5 7	5 4 4 4 4 4 5	6 6 6 5 5 6 6	L a a a a
ç	7	۸	c	- 2- 1	E-3	4-	5-	r	ر ا ا	- 5- 7- 8- 2- 1- 0 1 1	5-	7 -	-3	C			4	9	σ

7--11 -13 7.1--13 -8 -9-6 -13 -16 -34

-3

-2 2 -10 -13 -15 -15 -15 -15 -15 -16 -18 -21 -34 77-

2 -17 -19 -21 -23 76- 76--26 -2B -35 -43

C S 3 / C C 5 9-0 [--12 71--16 -20 -23 -26 -28 -29 -29 -31 -36 -45 64--57

5 2 0 1-4 61 71--19 -23 -26 -28 -30 -30 -32 -35 -39 -45

-20 -25 -22 -28 -27 -29 -28 -35 -35 04--46

-5 14 J. -12 77-14-

-12 -12 -11 -10 -10 -10 -17 -25 -24 -25 -24 -24 -24 -26 -29 -33 -38

-19 -18 -18 -20 76--25 -24 -22 -19 -18 01--18 -12 -25 -21 -15 -20

-41 -37 -38 -39 -39 -37 -33 -26 11-4 2-7-9-6--15 -19

-31

-27

-27

-28

601

-29

-27

-22

-16

-11

124

-56 -54 -53 -52 87--43 -35 -25 -11 -5

19--63 -57 -48 -37 -12 -25 4--2 C 4 6 -5

-87 - -90 -84 -79 -73 -64 -53 04--27 -17 01-9-2-T 0

-106-102 06--82 -70 -57 -43 -32 -23 -17 7 9-

-115 -109 -A9 -100 -77 -62 -48 -38 08--25 -15

-123 -118 -96 -108 -82 -68 -55 -45 -35 92-

-90 -102 -115 -74 09THE APPROXIMATE POSITION AND QUARTITY IN MILLIONTES OF AN INCH OF THE Z DEFLECTIONS IN MATRIX TOPAS COLUMN OI

18 10 4 -0 2 8 15 22 27 30	25 16 8 1 -5 3 10 16 21 26 29	45 33 22 14 7 2 2 7 12 17 20 23 25 28	55 40 28 20 13 8 6 7 10 13 16 18 19 21 22	63 44 34 26 19 13 10 10 11 12 13 14 14 15 18	58 54 43 33 25 19 15 13 11 10 10 9 9 9 11 15	71 59 48 39 31 24 20 16 13 11 9 8 6 5 4 3 11 16	50 50 41 34 27 21 18 14 12 9 7 4 3 3 5 9 16	58 50 42 34 27 21 17 13 11 10 8 5 1 2 5 10 17 24	53 47 40 33 26 19 14 11 9 9 9 8 5 0 6 13 20 28 33	L 43 37 31 24 16 10 6 5 7 9 11 11 10 12 18 25 33 40	33 27 21 13 7 1 -1 3 8 13 17 20 22 27 32 39 48	27 24 18 11 4 -2 -7 -4 5 14 22 29 34 38 43 47 57 65	21 17 10 3 0 -5 -11 2 16 27 37 45 51 57 63 70 79	17 12 4 4 3 1 R 20 33 45 55 64 71 78 R5 95	15 13 12 12 14 19 28 40 53 66 76 85 94 101 110	20 21 23 26 31 39 49 63 76 88 98 108 117 125	33 37 43 51 60 73 87 99 111 121 131	46 55 63 73 85 98 111 123 134 140	84 98 112 125 136
----------------------------	-------------------------------	---------------------------------------	---	--	--	---	---	--	---	---	--	---	--	--	--	--	-------------------------------------	-----------------------------------	-------------------

THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE Z BEFLECTIONS IN MATRIX TOPICS COLUMN 03

	-3 -9 -13 -16 -17
4	ر د
11	14
15	10
11	4
7 1	ر د
	<u>α</u>

-12 6 -14 -15 -14 -15 -14 -13 -13 6 -11 7α 2 9-3 -7 ī 01-<u>-</u>2 -14 --18 -26

C _ 7-_ -7 9+ -10 -10 -13 -16 -14 -15 -15 -20 -18 -14 -15 -23 -22 -15 -16 76--18 -26 -21 62--36

3 S 0 9---16 -19 -25 -24 -27 -28 -29 -32 -36 -43 -50 -59

3

3

7 S 0 S 1 1 6 -13 -18 -22 -28 -26 -24 -30 -32 -35 05- 95-

-15 -71-9--12 -111 6-6--11 91--27 -26 -25 -23 -21 -16 -20 -25 -23 -23 -25 -23 -31 -29 -25 -29 -41 -36 -34 -39 94-74-

-22 -20 1 2 -17 -19 -22 -24 -23 -20 α[-16 -18 -21 -25 -30 -35

94--33 -28 -30 -38 -39 -28 -28 -39 -38 -28 -28 -36 -32 -20 -25 -25 -16 -9 -10 -15 9-_ 7--12 -15 -10 -20 -16 -26 -20 -23

-54 -52 87-3 -10 -24 -34 -42 T 1 11- 71-

9-

127

-77 -71 -85 -68 -63 -48 -57 -24 -37 -4 -12 -3 ī N 7-

-108 -91 -82 -5B 77--28 -33 -25 -18 -12 00

-92

-80

-64 -73

-40 -53

-11 -18

-7

-3

75

2

-91 -101 -110 -117 -78 -64 -31 -40 -50

-125 -98 -110 -120 -84 -71 -47 -57 -38 128

-92 -105 -118 -77 -63 THE APPROXIMATE POSITION AND QUANTITY EN NILLIONTHS OF AN INCH OF THE Z DEFLECTIONS IN NATRIX TOPASI COLUMN OI

						5.8				31										8	
						12	14	14	22	56	38	46	62	76						COLUMN	
				19	15	6	6	7	16	19	31	38	55	68	93	107				TB#431	
			25	61	13	7	~	7	10	13	54	31	46	61	83	99 1	122			MATERIC	
		27	24	18	13	10	8	3	S	9	18	27	45	56	77	85	115	56		Ä	i
	28	54	22	17	13	6	Ŋ	4	~	_	13	23	38	51	71	84	106	20 1	138	DEFLECTIONS	
	25	20	19	<u>.</u> 5	13	01	7	ır:	~ ∶	\$	=	اد	34	45	99	75	26	00	132	Z DEPT	
19	20	15	16	13	12	11	6	80	ç	6	12	18	30	37	55	9	47	1 86	122	133	
=	14	6	12	10	11	12	וו	11	0	11	12	15	54	28	45	53	75	85	109	22 1	
4	¢	م	7	~	11	13	13	13	12	11		10	16	17	33	0 4	29	72	96	10 1	
С	C	9-	_	9	10	14	15	16	13	11	6	4	7	3	20	28	43	59	83	1 95 1	1
C	-2	7	-	œ	11	16	17	19	15	12	4	С	-3	-10	α:	18	38	67	71		
	~	9	9	15	13	20	21	25	18	15	1	2	-7	-5-	-	13	30	41	61	10 X11	
	œ	14	13	19	19	25	52	27	22	20	=	7	7	0	3	11	25	35	55	QUATTER	
	15	23	12	56	25	32	30	34	27	56	17	13	4	3	6	10	2]	31	43	OH AND	
			30	38	32	41	38	[7]	34	33	72	21	10	0,	3	11	19	:		11804	
			42	25	94	25	47	64	4]	04	31	27	18	16	11	13	17			APPROXIMATE POSITION AND	
					09	99	57	65	49	47	37	33	23	20	16					APPRO	
							69		57	52	24		56		124						
											12	28									

						80		7	œ	7		20							
					α		9		¢		9		α						
			2	_	S.	9	4	Ŋ	m	2	4	9	S	œ	~				
•		_		2		4		2		2		4		rz.		7			
			S		6		2		-		2		3		S				
	'n	S	6	3	_		-	0-	÷	С	0	-	-	m	۲,	5	9		
9		6		-		T	•	-2	•	-2		-		~		4		9	
10	7		C)		7		-3		4-		-2	01	0-		~	3	72	.0	
S	۳,	2	gand	0-	2	-2	7-	1-4	ιζ	7-	7-	-2	2	0	_		7	9	
2	m	~	_	-	200	3		5	. 0	-5		-3	_	7		~		9	~
2	,		0 -	2	-3	-4	-5	9-	9-	9	-5	7-	-3		0	2	4	9	α
	m		0-		۳-	1	5	•	9-	1	<u>ا</u> ج	1	-3	7	0		4		α
r.	(F)	-	c	-2	4	5	u:	٧	9	14	ر. ا	7-	C	~	0-	~	4	9	σ
y.		2	1	C	7-	٦.	۲. ا	ų Į		¥	1	Ŋ.	1	~	1	2		¢	
	7		C	•	7-		<u>ار</u> .		9-	•	<u>ا</u> ب	'	7-		0		4		σ
·C	4	~	0	-2	7-	-5	ی	r.	٦ċ	-5	5	-5	.3	2	С	0	r.	7	0
~		Ε.		7		7-	1	-5		5-	•	7-	ľ	7		6		7	
7	(V)	4		0	- 2	0	7-	~	4-	3	7-	0	-2	c	1	3	5	7	
	c	7	8		0	7	2-	-3	-3	ì	2	۲ ا	-		2		2	•	
α	7	വ	7	~		7		2		-2		7		-	6	4	7	α	
		7	•	7		~	ī	7	ī	7	7	C		~	• /	2			
			ç		3		0		Ú		0		h		4				
		Œ	α:	5	4	~	2	0		C	_		0	3	S	c			
				7		3		-				<.		4					
					€.	10	3					0	m						
						R.		~	~			α.							

•	1	
(X	
	•	
•		
(1	
(~ \)
•	,	

THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE Z DEFLECTIONS IN MATRIX TOPA32 COLUMN OL

-57 -72 -87 -100 -113

5 5 9 16 24	20 12 6 2 3 9 17 23 29 32	28 18 10 2 -4 4 11 17 22 27 30	48 35 24 15 8 2 2 7 13 17 21 24 27 30	57 42 29 21 13 8 6 7 10 13 16 18 20 22 24	65 49 35 27 19 13 10 9 9 10 12 13 14 15 17 20	70 55 43 33 25 19 14 12 10 10 9 9 9 9 9 17 17	2 60 48 39 30 23 19 15 12 10 8 7 6 5 4 4 12 19	61 50 42 34 26 20 16 13 10 8 6 3 2 3 5 10 18	9 50 42 34 26 20 15 12 10 8 6 3 0 1 5 11 19 26	48 40 33 26 18 12 9 R 7 7 6 3 -1 6 13 21 29 35	3 37 3] 24 16 9 4 3 5 8 9 9 8 12 18 26 34 42	34 27 21 13 6 -0 -2 1 6 12 16 18 22 27 32 40 50	27 24 19 11 4 -2 -9 -5 4 13 21 28 33 38 43 48 59 67	22 17 10 3 -0 -6 -12 1 15 26 36 44 51 57 64 71 R1	18 13 5 4 3 1 7 19 32 44 55 64 72 79 87 97	17 14 13 14 19 28 40 53 65 76 86 94 103 112	21 22 24 27 32 39 50 63 76 88 99 109 118 127	35 39 45 52 61 74 88 100 112 123 132	48 57 65 75 87 100 113 125 136 142	87 101 115 127 138
					9	7.0	72 60	61	59 50	53 48	13		27 24	22	16					

THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE Z DEFLECTIONS IN MATRIX TOP432 COLUMN OF

13 12 11 10 9 8 8 8 9 9 9 9 9 9	12 12 11 11 10 9 9 9 10 10 15 14 14 13 13
---	--

THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE Z DEFLECTIONS IN MATRIC TOPAS2 COLUMN 03

28 26 20 12 3	10 16 19 22 18 10 2 -4 -8 -11	1 5 10 15 19 9 1 -5 -9 -11 -10	-16 -9 -4 -1 3 6 4 -2 -7 -10 -12 -11 -8 -4	-27 - 19 - 13 - 10 - 8 - 7 - 6 - 8 - 11 - 13 - 13 - 11 - 8 - 3 3	-38 -29 -20 -19 -18 -17 -17 -17 -17 -16 -13 -9 -4 2 9	-47 -39 -32 -27 -26 -27 -26 -24 -22 -19 -16 -10 -4 3 8 13	-53 -46 -40 -35 -32 -32 -32 -36 -27 -24 -19 -14 -7 2 10 10 12	-49 -44 -39 -35 -33 -34 -32 -31 -28 -23 -18 -11 -4 2 5 6	-49 -44 -46 -35 -33 -32 -32 -32 -30 -27 -22 -15 -9 -5 -2 -0 1	-46 -42 -38 -33 -30 -28 -28 -29 -30 -29 -27 -21 -13 -11 -9 -8 -7 -6	-37 -33 -29 -25 -22 -21 -21 -24 -27 -29 -30 -28 -23 -20 -18 -17 -16 -15	= -20 -24 -20 -16 -14 -13 -15 -21 -26 -31 -33 -32 -30 -27 -25 -25 -25	-20 -17 -14 -9 -7 -6 -5 -11 -21 -30 -36 -40 -40 -39 -37 -34 -36 -36	-10 -8 -3 0 -1 -1 -0 -14 -27 -38 -45 -50 -52 -51 -51 -51	-1 0 6 2 -2 -5 -14 -26 -39 -49 -57 -63 -65 -67 -68	4 4 1 -4 -9 -17 -28 -40 -53 -64 -72 -77 -81 -83 -83	4 -2 -7 -13 -21 -30 -42 -56 -69 -80 -88 -94 -98 -99	-10 -17 -25 -34 -44 -59 -73 -86 -96 -104 -110	-19 -29 -39 -49 -63 -77 -91 -103 -113 -118	-52 -67 -82 -95 -108	
---------------	-------------------------------	--------------------------------	--	--	---	---	---	--	---	---	---	---	---	--	--	---	---	---	--	----------------------	--

THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE Z DEFLECTIONS IN NATRIX INFA33 COLUMN OL

25 17 10 5 6 12 20 26 32 35	32 21 12 5 -1 6 13 19 24 29 33	3 27 17 9 4 3 8 13 18 22 26 30 34	32 23 14 8 6 7 10 13 16 19 22 25 28	7 28 20 12 9 8 8 10 11 13 15 17 19 24	34 25 18 13 10 8 8 8 8 9 10 11 15 21	30 23 17 12 9 7 6 5 5 5 5 6 16 23	34 25 18 14 10 7 5 3 1 1 3 6 12 22	4 26 18 13 9 6 5 3 1 -2 0 6 13 21 30	25 17 10 6 4 4 4 3 1 -3 5 14 23 33 40	4 15 7 2 1 2 4 6 7 6 11 19 27 37 46	13 5 -2 -5 -7 3 9 13 17 20 27 34 42 53	1 4 -3 -11 -8 1 11 19 26 32 38 44 50 62 71	4 -0 -7 -14 -1 13 25 35 43 51 58 66 74 86	7 6 3 0 6 18 31 44 55 64 73 81 90 102	15 14 15 19 28 40 53 66 77 87 96 106 116	5 27 29 33 41 51 64 77 90 101 111 121 131	38 42 48 55 64 76 90 103 114 125 136	52 61 69 79 90 103 116 128 139 146	92 106 12n 132 143
ζ.		53 38 27		69 52 37 28		75 62 50 40 30		60 51 42 34 26		44 38 31 24]		29 25 19 11 4		21 15 7 6		75 25 27		25	

19 18 17 16 15 18 16 15 14 12 11 11 12	16 13 11 10 9 7 7 8 9 11 15 18 15 19 19 19 19 19 19 19	17 13 10 6 3 1 -0 -1 -1 0 2 4 7 11 16	16 11 9 5 1 -2 -4 -4 -4 -4 -2 0 3 7 11 16	13 10 7 4 -0 -4 -7 -8 -8 -7 -6 -4 -1 3 7 12 17	11 8 5 3 -1 -4 -8 -10 -10 -9 -7 -5 -1 3 8 13 18	7 4 2 -1 -4 -7 -10 -11 -12 -11 -10 -8 -5 -1 4 9 14	6 4 1 -1 -4 -7 -10 -12 -13 -12 -11 -9 -5 0 5 10 16	4 3 2 -0 -2 -6 -9 -11 -12 -13 -12 -10 -8 -3 2 7 13 17	3 2 1 -1 -4 -7 -10 -12 -13 -13 -12 -11 -9 -4 0 5 10 15	3 2 1 -1 -5 -8 -10 -11 -12 -11 -10 -8 -5 -0 4 9 14	4 4 3 1 -1 -5 -8 -9 -10 -10 -9 -7 -4 -1 4 8 13 18	7 6 4 2 -1 -4 -7 -8 -7 -6 -5 -3 -9 3 7 12 17	10 8 7 4 1 -2 -4 -4 -4 -3 -1 1 4 7 11 17	12 10 8 5 3 1 0 0 0 1 3 5 8 11 16	15 12 10 8 6 5 5 4 4 5 7 9 12 16	14 12 11 10 9 8 8 9 10 13	17 16 15 13 13 13 13 14	20 19 18 17	
---	--	---------------------------------------	---	--	---	--	--	---	--	--	---	--	--	-----------------------------------	----------------------------------	---------------------------	-------------------------	-------------	--

THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE Z DEFLECTIONS IN MATRIX TOP433 COLUMN 03

5 11 14 17 14 6 -1 -8 -12 -14	-5 1 6 12 16 6 -2 -8 -12 -14 -14	-22 -14 -8 -4 1 4 3 -3 -8 -12 -14 -13 -12 -9	-33 -23 -16 -13 -9 -7 -6 -8 -11 -13 -14 -13 -11 -7 -2	-43 -33 -23 -21 -19 -16 -16 -16 -16 -15 -13 -10 -6 -1 3	-51 -42 -35 -29 -26 -25 -25 -22 -20 -18 -15 -11 -5 0 4 7	-57 -49 -42 -36 -32 -30 -30 -29 -27 -24 -21 -17 -13 -7 0 7 6 7	-52 -45 -40 -36 -33 -32 -31 -29 -27 -24 -20 -15 -10 -5 0 2 2	-52 -46 -41 -36 -33 -30 -29 -29 -28 -26 -23 -19 -13 -8 -5 -4 -4 -4	-48 -44 -39 -34 -30 -27 -25 -25 -26 -25 -23 -18 -11 -10 -10 -11 -11 -11	-39 -35 -30 -26 -22 -20 -19 -20 -23 -25 -26 -25 -21 -19 -18 -19 -20	30 -25 -21 -16 -13 -11 -12 -17 -23 -28 -30 -30 -29 -28 -27 -28 -30	-22 -19 -16 -10 -7 -5 -3 -9 -18 -27 -34 -38 -40 -40 -38 -37 -40 -42	-12 -10 -5 -1 -2 -1 2 -12 -25 -36 -44 -49 -52 -53 -53 -55 -57	-5 -3 4 -0 -3 -4 -13 -25 -38 -49 -57 -63 -67 -69 -71 -74	-0 -0 -2 -6 -11 -18 -28 -40 -53 -64 -73 -79 -84 -87 -89	-1 -6 -10 -16 -23 -32 -43 -57 -70 -81 -90 -97 -101 -105	-14 -22 -29 -38 -47 -62 -76 -99 -108 -114	-25 -34 -44 -54 -68 -82 -95 -107 -117 -122
-------------------------------	----------------------------------	--	---	---	--	--	--	--	---	---	--	---	---	--	---	---	---	--

THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE Z DEFLECTIONS IN MATRIX TOPHAL COLUMN OL

-59 -73 -88 -101 -114

4 4 8 15 23	5 1 2 9 16 23 28 31	1 -4 4 11 17 22 26 30	7 2 2 7 12 17 20 23 26 29	8 6 7 10 13 15 18 20 21 23	13 10 9 9 11 12 13 13 14 16 19	14 12 11 10 9 9 9 8 9 12 16	19 15 13 10 8 7 5 5 4 4 11 18	17 13 11 9 6 3 2 3 5 9 17	16 12 10 9 6 4 0 1 5 11 18 25	9 8 8 8 7 3 -1 5 13 21 29 35	5 4 6 8 10 10 9 12 18 25 33 41	-2 2 7 12 16 19 21 26 32 40 49	-9 -5 4 14 21 28 33 38 42 47 58 66	5 -12 1 15 27 36 44 51 57 63 71 80	1 7 19 32 44 55 64 71 79 86 96	19 28 40 53 65 76 85 94 102 110	31 39 49 63 76 88 99 108 117 126	51 61 74 87 100 111 122 131	64 74 86 99 112 124 135 141	86 99 114 126 137
	28		20	ις.		0	S	3	0		6		33		49		66	11 1	135	
23		17				6		9	-	_	1			36		9		00	12	3
15	-			10	9 11	10		6		œ		12	4	27		53		87	11	126
	~		2		6		· ·		10		9			15				14		=
	7		2		10		15	17 1			7	4	-5	12	7		39		74	
	Ŋ	6	7	13	13	19		20		13		0		- 9-	***	14		77		
	11	17	14	20	91 9	25	23	56	20	18	6	9	4 -3	7	6	12	3 26	38	26	
	19	56	33 23	28	34 26	32	38 30	33	34 26	25	23 15	12	10 4	3	7 7	12	21 23	34	24	
			46 3	40	48 3	45	48	41	41 3	33	30 2	20	18 1	10	12	13	200			
				26	63	68 54	29	0 50	20	7 40	37	3 27	54	1 16	17	16	The second secon			
						9	71	90	58	52 47	24	33	27	21			The same thinks a survivor			
											1	.37								

THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE Z DEFLECTIONS IN MATRIX TOPHAL COLUMN OR

13 12 11 11 10	12 11 10 9 8 8 7 7 8 8	11 9 7 6 6 5 4 4 5 6 8	12 10 7 5 4 3 2 2 2 3 5 7 10	11 9 6 4 2 0 -0 -1 -1 -0 1 2 4 7 10	10 7 5 3 0 -2 -3 -3 -3 -3 -2 -0 2 4 7 11	9 6 4 2 -1 -3 -5 -6 -5 -4 -3 -1 2 5 R 12	7 5 3 1 -1 -4 -6 -7 -7 -7 -6 -5 -4 -1 2 5 9 12	4 2 1 -1 -4 -6 -7 -8 -8 -7 -6 -4 -1 2 6 10	3 2 0 -1 -3 -5 -7 -8 -9 -9 -8 -6 -4 -0 3 7 11	2 2 1 -1 -2 -4 -6 -8 -9 -9 -9 -8 -8 -6 -2 1 5 9 12	2 1 -0 -1 -3 -5 -7 -8 -9 -9 -8 -8 -6 -4 -0 3 7 11	2 1 -0 -2 -4 -6 -7 -8 -8 -7 -6 -4 -1 3 6 10	2 2 1 0 -2 -4 -6 -7 -7 -6 -5 -3 -1 2 5 9 12	4 3 2 1 -1 -3 -5 -5 -5 -4 -3 -1 2 5 8 12	6 5 4 2 -0 -2 -3 -3 -3 -2 -1 0 2 5 8 11	8 7 5 3 2 1 0 -0 -0 0 1 3 5 8 11	9 8 6 5 4 3 3 3 3 4 6 8 11	10 8 7 7 7 6 5 5 6 7 9	11 11 10 9 9 8 8 9 9	13 13 12 12
				1	10					2 2		م ا			9					

POSITION AND QUARTITY IN MILLIONTHS OF AN INCH OF THE Z DEFIRCTIONS IN MATRIX TDF441 COLUMN 03

28 27 21 13 3	11 17 20 23 18 11 3 -4 -8 -10	1 6 10 15 19 9 1 -5 -9 -11 -10	-15 -9 -4 -1 3 6 4 -2 -7 -11 -12 -10 -8 -3	-27 -18 -12 -10 -8 -7 -7 -9 -11 -13 -13 -11 -8 -3 4	-38 -29 -20 -19 -18 -17 -17 -17 -18 -17 -16 -13 -9 -3 3 10	-46 -39 -32 -27 -26 -26 -26, -25 -23 -20 -16 -11 -4 3 a 14	-53 -46 -40 -35 -32 -32 -33 -32 -30 -28 -24 -20 -14 -7 1 10 11 13	-49 -44 -39 -36 -34 -34 -34 -33 -31 -28 -24 -18 -12 -5 2 6 7	-49 -44 -40 -36 -34 -33 -33 -32 -31 -28 -23 -16 -10 -5 -2 0 2	46 -42 -38 -34 -31 -29 -28 -29 -30 -31 -30 -28 -22 -14 -11 -10 -8 -6	-38 -34 -30 -26 -23 -22 -22 -25 -28 -30 -31 -29 -24 -20 -18 -17 -15 -14	-28 -25 -20 -16 -15 -14 -16 -22 -27 -32 -34 -33 -31 -28 -25 -24 -24	-20 -18 -15 -9 -7 -7 -6 -12 -22 -30 -37 -40 -41 -40 -37 -33 -35 -35	-10 -8 -3 0 -2 -2 -1 -15 -28 -46 -50 -52 -52 -51 -50 -50	-1 0 6 1 -3 -5 -14 -27 -39 -50 -58 -43 -66 -67 -67 -67	5 4 1 -4 -10 -17 -28 -40 -53 -64 -72 -77 -81 -82 -83	4 -1 -7 -13 -21 -30 -42 -56 -69 -80 -88 -93 -97 -99	-9 -17 -25 -34 -44 -59 -73 -85 -06 -104 -109	-18 -28 -38 -49 -62 -77 -90 -103 -112 -117	-51 -66 -81 -95 -108
---------------	-------------------------------	--------------------------------	--	---	--	--	---	--	---	--	---	---	---	--	--	--	---	--	--	----------------------

139

THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE Z DEFLECTIONS IN MATRIC TOPHAS COLUMN OI

11 11 15 21 28 26 17 11 6 7 13 20 27 32 36	32 22 13 5 -1 6 13 19 25 29 34	53 39 27 18 9 4 3 8 13 18 22 26 30 34	62 46 32 23 14 R 6 6 10 13 j6 19 22 25 29	69 52 37 28 19 12 8 7 8 9 11 13 15 17 20 25	74 58 45 34 25 17 12 9 8 7 7 8 8 10 11 16 22	75 62 50 39 30 22 16 12 9 7 5 4 4 4 5 7 16 24	63 51 42 33 24 18 13 9 6 4 2 0 0 3 6 13 22	60 51 42 33 25 18 12 8 6 4 2 -0 -3 -1 5 13 22 31	54 48 41 33 24 16 9 5 4 3 3 2 -0 -4 4 14 24 34 41	1 44 38 31 23 14 6 1 -0 1 3 5 6 5 10 18 27 37 47	5 34 28 21 12 4 -3 -6 -7 2 8 12 16 20 26 34 43 54	28 25 19 11 3 -4 -11 -9 1 10 18 25 31 37 44 51 63 73	24 19 11 4 -1 -7 -15 -2 12 24 34 43 51 58 66 75 87	21 15 7 5 3 -0 6 18 31 43 54 64 73 81 90 103	20 17 15 14 15 19 28 40 53 66 77 87 97 106 117	26 26 27 29 33 41 51 64 77 90 101 111 122 132	39 43 48 55 64 77 90 103 115 126 136	53 62 70 79 91 103 117 129 140 146	93 107 121 132 144
---	--------------------------------	---------------------------------------	---	---	--	---	--	--	---	--	--	--	--	--	--	---	--------------------------------------	------------------------------------	--------------------

THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE Z DEFLECTIONS IN MATRIX TOF442 COLUMN OF

20 19 18 17 16	19 17 15 14 13 12 11 11 12 13	17 14 12 10 9 8 7 7 8 9 12	19 15 12 8 6 5 4 3 3 4 5 8 11 16	19 14 10 6 3 1 -0 -1 -1 -0 1 4 7 11 16	16 12 9 4 1 -3 -5 -5 -5 -4 -3 -0 3 7 11 17	14 10 7 3 -1 -5 -8 -9 -8 -6 -4 -1 3 7 12 18	11 8 5 2 -1 -5 -9 -10 -11 -11 -10 -8 -5 -2 3 8 13 19	7 4 1 -2 -5 -8 -11 -12 -13 -12 -11 -9 -6 -1 4 9 15	5 3 1 -1 -4 -8 -10 -12 -13 -13 -12 -10 -5 -0 5 11 17	4 3 1 -1 -3 -6 -12 -13 -14 -14 -13 -11 -9 -3 2 8 14 18	3 2 0 -2 -5 -8 -11 -12 -13 -13 -12 -9 -9 -5 0 5 11 17	3 2 0 -2 -5 -9 -11 -12 -12 -11 -9 -6 -1 4 9 15	4 4 2 1 -2 -6 -9 -10 -11 -10 -9 -8 -5 -1 4 9 14 19	7 5 4 2 -1 -5 -8 -8 -8 -7 -6 -4 -1 3 8 12 18	10 8 6 3 0 -3 -4 -5 -4 -3 -2 0 4 7 12 18	12 10 8 5 3 1 0 -0 0 1 2 5 8 12 17	15 12 10 8 6 5 5 4 4 5 7 9 12 17	15 13 11 10 9 8 9 9 11 13	17 17 16 15 14 13 13 14 15	21 20 20 18
----------------	-------------------------------	----------------------------	----------------------------------	--	--	---	--	--	--	--	---	--	--	--	--	------------------------------------	----------------------------------	---------------------------	----------------------------	-------------

THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE Z DEFLECTIONS IN MATRIX TOPHAR COLUMN OS

19 19 15 15 12 0 13 2 C 5 C 7-3 1 9--3 9-00 9φ. • -7 -10 φ 1 -11 15 -13 -16 0[--17 1 -13 6--17 -22 -13 -25 - 18 9 -27 ¢ -25 3 -]] 61-14 -31 T 0 -27 4 6 --34 2 120 9-20 -35 1 2 1 27 -30 9-X 54 <u>x</u> -35 S 12-14 1α[<u>-</u> -33 25 2 -26 α 25-C 17 -17 -26 6--34 -25 -17 7-ウベー -14 -38 6--35 12--43 c+-57-

6-2--20 [-12 3 9 9-ഗ 0 7 -24 3 6-5 -18 -28 15 -12 -22 -111 -16 -32 -13 -27 -19 -25 -2 -36 -26 -32 -27 -31 -37 -32 -35 -32 -34 -35 7.5 78--35 -35 -31 -36 -32 -37 -34 -25 -36 120 -19 -37 -35 -25 -36 98--16 -3] 76--34 -35 -16 -30 76- 76- 66-775-98-**-**3] -16 136 -34 -34 -20 -39 27--24 -37 EE-٤ 7--41 77-

142

1

-29 -45 -32 147 -31 -4B -35 -51 04--52 -42 -51 24-147 04-07--33 -30 -25 -17 -15 3 20 (r) α 1 1 CI 2 -13 -16 -19

79-79--63 -58 -51 04-エハー -15 9-2 ~ 0 ٣, ^

29-

-63

-78

-79

-78

91-

-71

-63

-53

04-

12-

-17

α

2-

4

σ

76--63 -91 -86 -78 -67 -54 04--2B 0 7

-106 -101 - R3 -71 -56 -41 -31 20--23 -13 7-

-102 6×--76 09--45

-113

-109

66-

-87

-73

-5A

77-

-34

-13

THE Z BEFLECTIONS IN MATRIX TOPHAS COLUMN OL APPROXIMATE POSITION AND QUANTITY IN MILLIONTES OF AN INCH OF

THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE Z DEFLECTIONS IN MATRIX TOP443 COLUMN OF

24 22 20 18 16 15 14 15 17	22 18 15 13 10 9 9 10 12 15	25 20 15 11 8 6 5 4 4 5 7 10 15 20	23 18 13 8 4 1 -0 -1 -1 -0 2 5 9 15 21	21 15 12 6 1 -3 -6 -6 -6 -5 -3 -0 4 9 15 22	18 13 9 5 -0 -5 -10 -11 -10 -8 -5 -1 4 10 15 23	15 11 7 4 -1 -6 -11 -13 -14 -14 -12 -10 -7 -2 5 11 17 24	9 5 2 -1 -6 -10 -14 -16 -16 -14 -11 -7 -1 5 12 19	8 5 2 -1 -5 -9 -13 -16 -17 -18 -17 -15 -12 -7 0 7 14 22	6 5 2 -0 -4 -8 -12 -15 -17 -18 -16 -14 -11 -4 3 10 18 23	4 3 1 -1 -5 -9 -13 -16 -17 -17 -15 -12 -6 0 7 14 22	5 4 3 1 -2 -6 -11 -14 -15 -16 -15 -14 -11 -7 -1 6 12 19	6 5 3 2 -2 -7 -11 -13 -14 -13 -12 -10 -6 -1 5 11 18 24	10 7 6 3 -1 -6 -10 -10 -9 -7 -5 -1 4 10 16 23	13 11 9 5 1 -3 -5 -6 -5 -4 -2 1 5 10 15 23	17 14 11 7 4 2 0 -0 0 1 3 7 10 16 22	20 16 13 10 8 7 6 6 6 7 9 12 16 21	20 17 15 14 13 12 11 11 12 14 17	22 22 20 20 18 17 17 18 19	27 26 25 24 23
----------------------------	-----------------------------	------------------------------------	--	---	---	--	---	---	--	---	--	--	---	--	--------------------------------------	------------------------------------	----------------------------------	----------------------------	----------------

THE APPROXIMATE POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE Z DEFLECTIONS IN MATRIX TOP443 COLUMN 03

9
1176
-
1078-
~
C
-946-
76-
1
3
3
-853
9
-795
-797
-
(4)
86
-863
œ
9
-968
107
7
-1211
_
1

-857-1064 -556 -6A5 925- 655--875 -720 -579 -4RD -1103

-832-1124 -925-1182 -117 -321 -564 -198 -311 -477 -686 34 123 -1212 -563 -730 -523 -352 -223 -152 -144 145 -10 100 -1139 -862 -605 -374 -172

22 -217 -490 -774-1113 214 343 400 383 594 148 77--1091 -786 -521 -272

-458 -759-1084 104 -166 426 505 404 623 560 425 253 32 -478 -21F -1009 -734

127 -166 -471 -792-1098 389 601 745 808 785 681 514 303 57 -458 -204 -927 -701

-11 -343 -668 -980 303 580 804 905 1013 1032, 960 724 767 235 -24 -622 -462 -262

-164 -497 -816-1067 165 468 915 855 1000 1063 1033 979 395 130 -457 -314 -115 -553

-27 -359 -685 -997 288 566 721 791 737 912 1013 1026 950 215 256 ī -446 -355 -219

145

76 -217 -522 -845-1151 339 556 708 783 777 769 246 347 124 -95 -413 -384 -273

32 -239 -531 265 553 443 589 551 700 44R 34 -542 -431 -296 -111

-589 -872-1213 -73 - 315124 262 334 33A 276 159 C -667 -519 -362 -18n

-932 -788 -641 -502 -384 -299 -258 -269 -335 -457 -628 -839-1078-1333

-78 -237 -444 -689 -956-1248

21

09

38

-39

-476 -311 -160

-780 -639

-860 -750 -664 -609 -597 -638 -728 -844-1039-1246

-1161-1130-1053 -998 -964 -982-1053-1154-1291-1384

-1413-1414-1433-1454-1407

POSITION AND QUANTITY IN MILLIONTHS OF AN INCH OF THE Z DEFLECTIONS IN MAINIX IDPASS COLUMN OI

	サイハー
-	*
-	7
,	
	i
Į	-2-
	_
(1
	_
	ı
1	j
-	ā
t	ーンススー
	_
	-546
	į
,	t
(N
	_
	i
1	Ì
(7
(1
•	ースエノ
	ı

-1196-1106 -977 -879 -808 -793 -836 -915-1038-1131	-1071 -879 -717 -589 -500 -451 -463 -531 -652 -817-1020

-283 -443 -649 -888-1145 -177 -134 -225 -153 -345 -905 -69P -915

-757-1098 -193 -470 48 241 369 426 407 320 177 -984 -705 -464 -22F

-804-1099

-534

-290

- BB

09

144

160

112

S

-150

-341

-561

-798

-1050

-751-1076 677--152 123 A L 533 489 655 595 465 207 د, -156 -40]

138 -162 -475 -786-1087 407 625 774 842 824 725 563 356 119 -129 -199 -594 -368

146

153 -137 -438 -746-1043 412 229 763 823 407 69A 540 350 134 -74 -364 -341 -240

-716-1043 -415 -176 -441 -129 134 24 258 236 523 355 416 404 029 382 264 962 787 164 746 S 38 -644 -504 -362 -176 509 -405 -281 -107

-512 -AR -279 51 127 140 76 6 921 - 262 - 295 - 492 - 136

-910 -761 -608 -460 -330 -228 -166 -149 -189 -288 -439 -634 -860-1103

-939 -800 -677 -575 -501 -461 -475 -540 -654 -809-1001

-1090-1040 -946 -870 -811 -802 -846 -922-1038-1121

-1269-1242-1231-1227-1246

THE APPROXIMATE POSITION AND QUANTITY IN MILLIONIES OF AN INCH OF THE Z DEFLECTIONS IN MATRIX TOP453 COLUMN OF

-448 -837-1042 -470 -543 -718 -584 -490 -450 -1087 -887

-1178 -939 -714 -514 -349 -224 -152 -139 -167 -297 -460 -667 -907-1163

-102 -305 -549 -818-1112 14 134 153 -3 106 -161 -1094 -830 -583 -357

-205 -480 -766-1106 35 755 356 413 395 162 307 -25 -1038 -745 -492 -249

113 -159 -453 -755-1080 976 519 619 630 577 574 275 22 -950 -686 -440 -187

133 -164 -473 -789-1092 398 613 160 8.25 804 703 538 329 88 -863 -648 -413 -166

-335 -657 -965 9-587 308 816 265

147

114 -177 -480 -796-1097 376 589 735 803 543 696 788 348 -84 129 -388 -363 -257

83 -184 -473 -770-1091 215 483 610 585 558 177 787 76 -526 -418 -288 -109

-794-1128 -9 -245 -515 360 369 309 180 3 162 286 -655 -511 -362 -178

-14 -162 -362 -600 -862-1148

47

100

99

-21

-772 -632 -469 -301 -148

-969-121R -921 -775 -625 -481 -357 -264 -212 -209 -262 -372 -533 -736

-963 -830 -714 -620 -555 -529 -557 -634 -759 -924-1124

-1125-1085-1000 -934 -887 -892 -950-1038-1165-1252

-1341-1328-1332-1340-1372

THE APPROXIMATE POSITION AND QUARTITY IN MILLIONTHS OF AN INCH OF THESE DEFLECTIONS IN NATRIX TOP453 COLUMN 03

Security Classification

DOCUMENT CONTR	ROL DATA -	R&D								
(Security classification of titla, body of abstract and indexing a	nnotation must ba	entarad whan the over	all report is classified)							
1. ORIGINATING ACTIVITY (Corporate author)			RITY CLASSIFICATION							
Owens-Illinois, Inc. under Purchase Order	No. B-177	Unclassi	ried							
to M.I.T. Lincoln Laboratory		26. GROUP None								
3. REPORT TITLE		None								
Design Study of Large Sculpted Mirror Subs	strates (Ti	tle UNCLASSIF	IED)							
4. DESCRIPTIVE NOTES (Type of report and inclusive dates) Final Report, Vol. II										
5. AUTHOR(S) (Last name, first name, initial)										
Foote, James B.										
6. REPORT DATE July 1971	7a. TOTA	L NO. OF PAGES	76. NO. OF REFS None							
	9a. ORIG	INATOR'S REPORT	NUMBER(S)							
8a. contract or grant no. AF 19(628)-5167	ा ।	nal Report, Vo	ol TT							
b. PROJECT NO. ARPA Order 600										
Purchase Order No. B-177		9b. OTHER REPORT NO(S) (Any other number assigned this report)								
d.	ES	D-TR-71-196								
o. Availability/Limitation Notices Stattment Distribution limited to U.S. Go and evaluation; 21 July 1971. document must be referred to E	Other	gencies only; requests for								
11. SUPPLEMENTARY NOTES	12. SPON	SORING MILITARY A	CTIVITY							
This report is Supplement to ESD-TR-71-186	7	anced Researchepartment of 1	h Projects Agency, Defense							
13. ABSTRACT										
This is Volume II of Design Study of Large Sculpted Mirror Substrates. It consists of 147 deflection maps resulting from calculations described in Volume I. Map codings appear in Section 7.0 of Volume I.										
14. KEY WORDS thornor as thermal as	anlurai a	m	honical analyssis							
mirror substrates thermal and thermal flux finite elec	nalysis ement analy		hanical analysis ormations							

UNCLASSIFIED

148

1

p1f-1800

DEPARTMENT OF THE AIR FORCE HEADQUARTERS ELECTRONIC SYSTEMS DIVISION (AFSC) LAURENCE G. HANSCOM FIELD, BEDFORD, MASSACHUSETTS 01730



REPLY TO ATTH OF:

TML (Lincoln Lab)

FOR THE COMMANDER

8 January 1974

SUBJECT:

Review of Technical Report(s) Marked with a Distribution Limitation

EUGENE C. RAABE, Lt Colonel, USAF Chief, Lincoln Laboratory Project Office Cy to: ESD (DRI)

Hq AFSC (DIXL)

R. Clarke (Linc Lab)

DEPARTMENT OF THE AIR FORCE HEADQUARTERS ELECTRONIC SYSTEMS DIVISION (AFSC) LAURENCE G. HANSCOM FIELD, BEDFORD, MASSACHUSETTS 01730

REPLY TO

TML (Lincoln Lab)

8 January 1974

SUBJECT:

ESD-TR-71-196, July 1971, "Design Study of Large Sculpted Mirror Substrates, II".

DDC/Air Force Liaison Representative Cameron Station
Alexandria, VA 22314

- 1. I certify that the subject TR has been reviewed and approved for public release by the controlling office and the information office in accordance with AFR 80-45/AFSC Sup 1. It may be made available or sold to the general public and foreign nationals.
- 2. Distribution statement A appears on the subject TR and the DD Form 1473 as required by AFRs 80-44 and 80-45.

FOR THE COMMANDER

EUGENE C. RAABE, Lt Colonel, USAF Chief, Lincoln Laboratory Project Office XXXXh

Cy to: ESD (DRI)
Hq AFSC (DLXL)